# BEFORE THE STATE OF CALIFORNIA THE NATURAL RESOURCES AGENCY CALIFORNIA ENERGY COMMISSION (CEC)

In the Matter of:	)		
	)	Docket No.	10-IEP-1H
Preparation of the 2010 Integrated	)		
Energy Policy Report Update	)		

Joint Committee Workshop on State and Local Government Building Retrofit
Projects Funded Through ARRA

CALIFORNIA ENERGY COMMISSION
HEARING ROOM A
1516 NINTH STREET
SACRAMENTO, CALIFORNIA

THURSDAY, JULY 8, 2010 10:00 A.M.

Reported by: Peter Petty

### Commissioners (and their advisors) Present (by WebEx)

Karen Douglas, Chairman and Presiding Member, IEPR Committee, Federal Stimulus Program (Ad Hoc) Committee

Galen Lemei, Advisor to Chair Douglas

Panama Bartholomy, Advisor to Chair Douglas

Anthony Eggert, Associate Member, Federal Stimulus Program (Ad Hoc) Committee

Laurie ten Hope, Advisor to Jeffrey D. Byron, Associate Member, Integrated Energy Policy Report Committee

Kristy Chew, Advisor to Jeffrey D. Byron, Associate Member, Integrated Energy Policy Report Committee

## Staff Present:

Suzanne Korosec, IEPR Lead Deborah Godfrey Gabriel Taylor

#### Also Present

#### Presenters

David Terry, National Association of State Energy Officials (NASEO) Gabriel Karam, San Joaquin County Nancy Kerry, City of South Lake Tahoe Kathay Lovell, Mayor, City of South Lake Tahoe John Sherbert, Town of Moraga Tom Coburn, Nevada County Lewis Dean, Department of General Services (DGS) Maria Martinez, CA Department of Corrections and Rehabilitation

#### Public

Benjamin Peters Mary Kimberlin Michael Meacham, City of Chula Vista Erik Emblem, Cal SMACNA Harpreet Walaia

TNDEX

Proceedings	4
Suzanne Korosec, IEPR Lead	4
Opening Remarks	
Chair Karen Douglas	8
Commissioner Anthony Eggert	10
Presentations	
David Terry, National Association of State Energy Officials (NASEO)	12
Deborah Godfrey, Special Projects Office (CEC)	43
Gabriel Karam, San Joaquin County	57
Nancy Kerry, City of South Lake Tahoe	75
Kathay Lovell, Mayor, City of South Lake Tahoe	76
John Sherbert, Town of Moraga	89
Tom Coburn, Nevada County	101
Gabriel Taylor, CEC	112
Lewis Dean, Department of General Services (DGS)	113
Maria Martinez, CA Department of Corrections and Rehabilitation	131
Public Comments	
Benjamin Peters Mary Kimberlin Michael Meacham, City of Chula Vista Erik Emblem, Cal SMACNA Harpreet Walaia	36 38 40 127 140
Adjournment Certificate of Reporter	141 142

- 2 JULY 8, 2010 10:06 A.M.
- 3 MS. KOROSEC: Good morning. I am Suzanne Korosec.
- 4 I manage the Energy Commission's Integrated Energy Policy
- 5 Report Unit. And welcome to today's workshop on Government
- 6 Building Retrofit Projects that are funded by ARRA. This
- 7 workshop is being held jointly by the Energy Commission's
- 8 Federal Stimulus Program (Ad Hoc) Committee and its
- 9 Integrated Energy Policy Report Committee.
- Just a few housekeeping items before we get
- 11 started. Restrooms are out in the atrium through the double
- 12 doors and to your left. There is a snack room at the top of
- 13 the stairs in the Atrium, on the second floor under the
- 14 white awning, and if there is an emergency and we need to
- 15 evacuate the building, please follow the staff out the doors
- 16 to the park that is kitty corner to the building, and wait
- 17 there until we are told that it is safe to return.
- 18 Today's workshop is being broadcast through our
- 19 WebEx conferencing system, so parties need to be aware that
- 20 we are recording the workshop. The audio recording will be
- 21 made available on our website within a couple of days and we
- 22 will also be posting our written transcript in about two
- weeks.
- We have a number of presentations today and will
- 25 have opportunity for Q&A after each presentation. We will

1	also	have	an	opportunity	at	the	end	of	the	day	for	more

- 2 general public comment. At that point, we will take
- 3 comments from those here in the room first, and then we will
- 4 turn to the folks listening in on WebEx. For those of you
- 5 who are here in the room, if you have questions or comments,
- 6 please come up to the center podium and use the microphone
- 7 so that we can make sure that we capture your comments on
- 8 the record, and it is also helpful if you can give the Court
- 9 Reporter a business card so we can make sure that your name
- 10 and affiliation are correct in our transcript.
- 11 For people joining us through WebEx, you can use the
- 12 chat function at any time to let the WebEx Coordinator know
- 13 that you want to ask a question or make a comment, and we
- 14 will make sure to open your line at the appropriate time.
- 15 We are also accepting written comments until the close of
- 16 business on July 19<sup>th</sup>, and the notice for today's workshop,
- 17 which is out at the table in the foyer, and also available
- 18 on our website, outlines the process for submitting those
- 19 written comments.
- Today's workshop is the second of six public
- 21 workshops that we are holding as part of the 2010 Integrated
- 22 Energy Policy Report, or IEPR Proceeding. The first
- 23 workshop covered the processes in place to ensure that we
- 24 have transparency and accountability, and how ARRA funds are
- 25 being spent for energy related projects. Next week, we will

- 1 be highlighting the Energy Commission's efforts to leverage
- 2 existing program funds to bring additional ARRA funding to
- 3 California, and how that infusion of additional funding will
- 4 help us to better meet the goals of our existing programs.
- 5 On July 21<sup>st</sup>, we will be talking about the various clean
- 6 energy work force and training activities that are underway
- 7 throughout California that will be expanding training and
- 8 employment opportunities in the fields of energy efficiency,
- 9 renewables, and clean transportation. The following day, we
- 10 will cover the Energy Commission's Clean Energy
- 11 Manufacturing Program, which is providing financial support
- 12 to encourage production of clean energy technologies and
- 13 fuels to vehicle fleet owners, businesses, technology
- 14 developers, and whether that program will be enough to
- 15 encourage manufacturers to locate here in California and, if
- 16 not, what are the remaining barriers, and how they should be
- 17 addressed. Finally, on July 29<sup>th</sup>, we will explore how ARRA
- 18 funding is helping to increase the energy efficiency of
- 19 existing buildings in California, consistent with our goal
- 20 of achieving all cost-effective energy efficiency, and how
- 21 those efforts can be a pilot or foundation for additional
- 22 efforts in the future. And more information on each of
- 23 these workshops will be posted on our website when the
- 24 workshop notices are released, which is typically 14 days
- 25 prior to the workshop date, and we also post our workshop

- 1 agendas about two days before the workshop.
- 2 Just some quick background on the IEPR. The IEPR is
- 3 required by statute every two years, in odd numbered years.
- 4 It takes a detailed look at California's energy markets,
- 5 including expected energy supplies and demand, energy
- 6 production, delivery, distribution, market trends, and the
- 7 major energy policy issues that are facing the State. We
- 8 also prepare an update to the IEPR in the intervening years,
- 9 which is what the 2010 IEPR update is, that provides a
- 10 progress report on past topics and also identifies any new
- 11 developments or issues that are on the horizon.
- 12 This year, with the large influx of Recovery Act
- 13 funding into California, the IEPR Committee has chosen to
- 14 focus the 2010 IEPR update on examining the impacts of that
- 15 funding, the benefits, the challenges, and the energy policy
- 16 implications of this large investment of Stimulus funding
- 17 into California's energy sector and how these funds are
- 18 going to help us achieve our long term and environmental
- 19 policy goals.
- 20 Our agenda today will begin with a presentation from
- 21 the National Association of State Energy Officials that will
- 22 be highlighting ARRA State Energy Program public building
- 23 retrofit activities throughout the U.S., and discussing
- 24 trends and changes going forward. We will then have an
- 25 overview of the Energy Commission's Energy Efficiency and

1	Conservation	Block	Grant	Program,	including	program	design

- 2 summary of the funded projects, expected energy and
- 3 greenhouse gas emission savings, and jobs that are being
- 4 created, and then we will hear from some of the individual
- 5 projects that have received awards under that program.
- 6 After hearing about the local and regional efforts,
- 7 we will switch gears a little bit and talk about the State
- 8 level efforts with the Department of General Services
- 9 Revolving Loan Program, and then we will finish up with an
- 10 opportunity for public comment. So, with that, I will turn
- 11 it over to Chairman Douglas and Commissioner Eggert for
- 12 opening comments.
- 13 CHAIRMAN DOUGLAS: Thank you, Suzanne, and good
- 14 morning everybody. Welcome and thank you, those of you who
- 15 have come here today to help inform the IEPR Committee and
- 16 the ARRA Committee, and provide your perspective on the
- 17 topics that we are covering today. Our role in
- 18 administering ARRA has put us in the position of working
- 19 very very closely with local governments up and down the
- 20 entire state counties and cities. This, particularly the
- 21 Block Grant, is an unprecedented infusion of Federal funding
- 22 to invest in energy efficiency in the State of California at
- 23 the local government level, and one of the things that we
- 24 certainly want to learn through this workshop is to get a
- 25 sense of the benefits that this has provided to local

- 2 again, what might we have in mind, and what might we do
- 3 better, what should we do in the same way. We are very
- 4 interested also in the challenges that this funding
- 5 presented to local governments and how they have organized
- 6 to overcome these challenges. Through the administration of
- 7 ARRA, we also -- the Energy Commission -- worked with the
- 8 Department of General Services in the State Legislature to
- 9 establish a Revolving Loan Fund for energy efficiency
- 10 improvements in state buildings, and this is an
- 11 unprecedented and yet very logical step and it is something
- 12 that I think we wish we had done a long time ago, we are so
- 13 pleased to have been able to do it, and we have high hopes
- 14 for what that fund will be able to achieve both in terms of
- 15 the \$25 million that we put into that initially, but also,
- 16 and more importantly, in terms of providing a model that
- 17 will allow the state to potentially expand on that model and
- 18 to set a positive example for efficiency improvements going
- 19 forward in state buildings, and the benefits that that
- 20 should bring to the state. We are also very very pleased to
- 21 welcome David Terry here from NASEO because it is of
- 22 interest to all of us on the Commission and certainly to the
- 23 people who we work with, and the Legislature, and local
- 24 governments in other parts of the state, to know what other
- 25 states are doing with Recovery Act money, how we compare,

1	how our	programs	compare	with	the	qoals	that	other	states

- 2 have set out for themselves and the types of policies they
- 3 are pursuing, and the rationale for pursuing potentially
- 4 different or, in some cases the same, the range of policies.
- 5 So we are very interested in learning about that and being
- 6 informed by that perspective as we move forward with this
- 7 analysis of where we are and what we have set out to
- 8 achieve, and ultimately through the 2010 IEPR Update, sort
- 9 of this assessment of our ARRA programs. So, with that, I
- 10 will turn this over to Commissioner Eggert to make some
- 11 opening comments, but, again, I welcome all of you here at
- 12 the Energy Commission and we very much look forward to
- 13 hearing what you have to say.
- 14 COMMISSIONER EGGERT: Thank you very much, Madam
- 15 Chair. I am very happy to be here today to join you for
- 16 this workshop and also very much looking forward to the
- 17 discussion. I think this is a tremendous opportunity to
- 18 learn from each other, particularly how we are going about
- 19 deploying these energy efficient and clean energy
- 20 technologies, you know, this is kind of the shining lights
- 21 of the California economy during some of these difficult
- 22 economic times, you know, we have got a long history of
- 23 seeing the significant benefits that can accrue from
- 24 strategic investments, particularly in energy efficiency,
- 25 providing significant benefits to the state in terms of

1	enerav	savings.	pollution	reduction,	helping	115	tο	meet	Our
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- 2 climate change goals, and also sort of spawning new industry
- 3 with respect to those companies that are producing the
- 4 products, energy efficiency and clean energy products that
- 5 are going to help us meet our energy and environmental
- 6 goals.
- 7 I also just want to note that what is exciting is
- 8 that we are starting also to see a significant number of the
- 9 technologies we have invested through the Public Interest
- 10 Energy Research Program that are now entering into the
- 11 marketplace, that are being deployed through these programs,
- 12 especially within state and local facilities, providing the
- 13 benefits of those technologies. And because we are in this
- 14 rapidly evolving sort of market, both with respect to the
- 15 rapidly evolving technologies and the strategies for
- 16 implementing those technologies, I think having a workshop
- 17 of this type to sort of check in and get everybody's
- 18 thoughts about what they have learned to date, and sort of
- 19 where they see the greatest opportunities going forward, I
- 20 think, this really is a tremendous opportunity. So, I guess
- 21 with that, I will stop and I look forward to the discussion.
- 22 CHAIRMAN DOUGLAS: And, actually, before we turn
- 23 this back to Suzanne, I will introduce the others up here on
- 24 the dais. To my immediate right is Panama Bartholomy, my
- 25 Advisor, and to his right, Laurie ten Hope, the Advisor to

- 2 Committee. And with that, Suzanne, please, take as along.
- 3 MS. KOROSEC: All right. David Terry has worked
- 4 with NASEO in a variety of capacities since 1996, and leads
- 5 NASEO's programs in support of the nation's 56 state and
- 6 territorial energy offices. The organization communicates
- 7 the state's views on virtually all national energy issues,
- 8 including electricity policy, energy efficiency and market
- 9 transformation, renewable energy development, energy
- 10 assurance and reliability, building codes and efficiency,
- 11 and climate oriented energy programs. Mr. Terry, go ahead.
- MR. TERRY: Thank you, and thank you to the
- 13 Commission for inviting me today. I apologize that I am not
- 14 able to be there in person. I wanted to start by saying
- 15 that this is sort of a unique opportunity in that, for many
- 16 years, NASEO has been able to share with the other states,
- 17 the innovative and robust programs that the Commission
- 18 operates and that has really laid such great groundwork in
- 19 California, that have been shared with the other states, so
- 20 to be able to share some of the other things back with you,
- 21 and we are pleased to do that.
- I want to give just a brief overview of what I am
- 23 going to cover today. I will touch on what we see across
- 24 the country in the State Energy Offices from NASEO's
- 25 perspective, in both the residential, commercial, and public

	1	buildings	area,	I	will	spend	а	little	bit	more	time	on
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- 2 public buildings, and also some context with regard to ARRA
- 3 and a little bit of discussion around financing issues which
- 4 are of great interest, as the programs are implemented
- 5 across the country in the buildings area, using stimulus
- 6 funding, or ARRA funding. And then, lastly, just some
- 7 things, some trends that we see looking ahead, so those are
- 8 sort of the order and hopefully I will be able to touch on
- 9 some of the high points that we see in the various states
- 10 across the country. Next slide.
- 11 Again, just for some context, the State Energy
- 12 Program is a federally funded program that the states carry
- 13 out. All of our members, including the Commission, carry
- 14 out this program. Under the Stimulus, it received \$3.1
- 15 billion; \$4.7 billion additional dollars were leveraged with
- 16 that by the states and their partners. In terms of the
- 17 overall status of that money across the country, about \$2.5
- 18 billion has cleared the NEPA environmental project review
- 19 process with DOE, and about \$2.5 billion similarly has been
- 20 committed or obligated by the states for specific programs
- 21 and projects. I have listed each of the sectors today just
- 22 to give you some context of the amount of money going into
- 23 buildings, these are all broad categories transportation
- 24 programs, industrial, etc., and there is some overlap here,
- 25 but you will note, the \$1.6 billion amount for buildings are

1	receiving	the	largest	share	of	funds.	And,	within	that,	the
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- 2 early program plans, and this has shifted somewhat, it is
- 3 not nailed down at the moment, but the early program plans
- 4 in the states indicated about half of that \$1.6 billion was
- 5 in the residential side of buildings, so, just to give you
- 6 some feel for how the overall funds were spent. Next slide.
- 7 And I wanted to touch on just some very specific
- 8 projects in each region in the country, and I thought it
- 9 would give you a flavor for the variety. And I think that
- 10 is not surprising in the different states, the very
- 11 different needs not only from a climatic perspective, but
- 12 also based on their demographics, the age of the population,
- 13 and other programs that may operate that already target
- 14 different segments of the market or population. So, Maine
- 15 has a particularly robust rebate program, for example, where
- 16 they are targeting homeowners for the most part with oil
- 17 heat retrofit projects and efficiency projects, really
- 18 trying to lower home energy bills, that is really sort of
- 19 the focus. Going on to the Southeast, in Tennessee, they
- 20 really took quite a different approach, and I included this
- 21 even though it is not exactly a buildings oriented program,
- 22 it does have a solar thermal and solar pv grant program for
- 23 commercial and residential buildings, coupled with the
- 24 Tennessee Solar Institute which is a research and technology
- 25 institute that is linked with private solar manufacturers in

1	the	state,	so	they	are	really	trying	to	turn	that	entir	e
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- 2 sector in their state through this activity, so a very
- 3 interesting approach that they have taken. And I think
- 4 Georgia, a more typical program that many of the states are
- 5 operating where they are doing a competitive grant program
- 6 around commercial and residential efficiency, they have
- 7 targeted that for particular types of retrofits in
- 8 particular parts of the state, but it is a fairly
- 9 straightforward program. Next page.
- In the Mid-Atlantic region, there are a number of
- 11 things going on. I have here a Revolving Loan Program, many
- 12 of the states have set up Revolving Loan Programs, and I am
- 13 going to revisit that when I talk a little bit about
- 14 financing, but Maryland has been operating this program for
- 15 some time, this is an expansion of it, actually. But the
- 16 other interesting thing in the Mid-Atlantic region, the
- 17 states have gotten together a number of times over the last
- 18 year and recognized the need to coordinate their training
- 19 activities in the residential retrofit area. For example, a
- 20 number of the states had residential retrofit training
- 21 programs for contractors that were working specifically on
- 22 the Weatherization Assistance Program. This is a Federally
- 23 funded program that targets low-income homeowners, and that
- 24 was a different training program than there was for the rest
- 25 of the residential market, and there was a recognition that

- 1 this should really be harmonized, not only within the state,
- 2 but within the region, as people crossed contractors
- 3 crossed borders of states typically close together, to
- 4 harmonize those training standards and the recognition of
- 5 them, and to make sure that they are reciprocal. And that
- 6 process is just now getting underway, but it is an
- 7 interesting offshoot that I do not think would have happened
- 8 absent the Stimulus money, where we had an entire region of
- 9 states sort of moving together to change the market. So I
- 10 think that is a particularly interesting one.
- I would also mention one of the territories,
- 12 American Samoa, I think, frequently the territories are
- 13 overlooked in reviews, and there are many interesting things
- 14 going on there, in American Samoa, in particular. Being an
- 15 island, they import a great deal of their energy, virtually
- 16 all of it, so they are making a very aggressive move on not
- 17 only efficiency, but also in pv and wind and solar thermal.
- 18 Much of that is geared toward buildings, actually, rooftop
- 19 solar, rooftop solar hot water, community scale wind, so it
- 20 has an aspect to it that is somewhat in the building area.
- 21 Next slide.
- 22 And just to touch very quickly on Arizona, they have
- 23 very robust Performance Contracting Programming in Arizona
- 24 already and this project, \$19 million to upgrade 167
- 25 schools, leveraged \$17 million. What is interesting about

1	this	is	how	they	used	that	additional	amount	of	ARRA	funding
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- 2 since they already had a Performance Contracting Program in
- 3 place to address state buildings. It does not require a
- 4 significant amount of external capital on these, they are
- 5 financed off of the savings of the projects, but they wanted
- 6 to do a few things, they wanted to incentivize the speed of
- 7 the retrofit, they wanted to pay for technical assistance,
- 8 hand-holding, if you will, of the end-user agencies and
- 9 schools to get through this process, for schools in
- 10 particular. It certainly is not their focus to be
- 11 retrofitting buildings, so having somebody there to help
- 12 walk them through the process was part of that, and also to
- 13 add some innovative technologies that maybe are commercially
- 14 available, but a bit further out in terms of any retrofit
- 15 programs. So, they used that money in an interesting way,
- 16 and, in fact, I had just spoken with Arizona within the last
- 17 week or so, and they are moving forward. I believe most of
- 18 these projects, they are almost ready to begin construction;
- 19 a few have already begun construction, so that is moving
- 20 quite quickly. And last on this slide, Hawaii. Again, a
- 21 state known for its tourism and hotel industry. They have
- 22 had a hotel program for some time, but they really ramped up
- 23 their efficiency efforts in working with the hotels on the
- 24 island, again, much like American Samoa, in that they import
- 25 virtually all of their energy, so both from an efficiency

- 1 perspective and in reducing oil imports for power
- 2 generation, it is really critical in the built sector in
- 3 Hawaii. Next slide.
- 4 As I mentioned, a number of states have created
- 5 Revolving Loan Funds, must as California has, as well.
- 6 NASEO recently completed a database; I have left the
- 7 resource on the slide there for the link of all the states'
- 8 Revolving Loan Funds. We have separated those between ARRA
- 9 or Stimulus funding and existing funds, and there is a
- 10 little bit of gray area there, but about \$750 million worth
- 11 of loan funds by our calculation, that is growing somewhat,
- 12 but it is a difficult number to make extremely precise, but
- 13 that is a fairly accurate robust database, and it explains
- 14 what each of the states' funds are for. The lion's share of
- 15 those funds, by our calculations, something in excess of 70
- 16 percent are geared toward buildings. Much of that is in the
- 17 commercial and public building sector, but also industrial
- 18 efficiency, which includes both some process efficiency, as
- 19 well as the structure, itself. So these revolving loan
- 20 funds, I think, are one of the more lasting elements that
- 21 will come out of the Stimulus funding, and we are really
- 22 pleased at how these have popped up across the country and
- 23 the way they are utilized. They really are, I think, an
- 24 exciting and interesting area. We are going to continue to
- 25 follow those. I think there is room for additional

1 innovation in this area as those funds mature and beg
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- 2 revolve. There are discussions of ways to further leverage
- 3 the funds that they are loaning out, so I think an area for
- 4 much more discussion and examination. Also, other things
- 5 that you would expect, interest rate buy-down programs and
- 6 loan loss reserve funds, those also for the building sector,
- 7 in particular, are targeting residential consumers. They
- 8 have a number of advantages from a Stimulus perspective, a
- 9 bit of detail here, but when funds are placed in a loan loss
- 10 reserve from a Department of Energy and Federal perspective,
- 11 those funds are expended almost immediately, so that is an
- 12 advantage in terms of getting that designation from the
- 13 Federal Government, it is also a very highly leveraged,
- 14 great way to move projects, and move efficiency to scale in
- 15 the state, so worth noting. And also, just to mention that
- 16 the Energy Programs Consortium, the acronym you see there,
- 17 EPC, and our organization, NASEO, is very engaged in these
- 18 financing areas, generally, but in particular in secondary
- 19 markets of buying loans, setting up mechanisms for loans to
- 20 be resold into the secondary market for residential
- 21 retrofits and thus essentially revolving funds, again, to
- 22 further expand their reach.
- I also included the PACE Programs, the property
- 24 assessment loan approach in terms of the residential sector
- 25 and commercial sector. It has been widely talked about in

1 the media, at least in the Energy press over the last	, week	1	1
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- 2 or so, the statement by the FHA and Freddie and Fannie Mae
- 3 that essentially they are not going to support a PACE
- 4 approach, and without getting into too much detail here,
- 5 that is a major barrier in that many hundreds of millions of
- 6 dollars across the country, part of the State Energy Program
- 7 funds, but also other funds distributed by the Federal
- 8 Government to states and localities to carry out residential
- 9 programs were tied to this type of financing approach, and
- 10 that is clearly not going to go forward from a Federal
- 11 perspective, so we are rapidly revisiting how to address
- 12 that need, and there are some other options, but it is
- 13 certainly a new barrier that has come up that we are all
- 14 going to have to work through together.
- 15 And lastly, a very active area that NASEO has been
- 16 involved in really since its inception nearly 30 years ago,
- 17 energy savings performance contracting. As I mentioned,
- 18 many of you are probably familiar with it already, but in
- 19 the public sector for both local and state buildings and
- 20 schools, retrofitting the building using the stream of
- 21 savings to pay for most or all of those improvements. And
- 22 it is a great financing tool; it has evolved greatly over
- 23 the last decade, in particular. And I am going to spend a
- 24 little time on the next slide, I believe it is just talking
- 25 about some of the different ways that states are approaching

- 2 innovation occurring there. Next slide.
- 3 As I mentioned, there is a lot of innovation
- 4 occurring in the public building retrofit program area,
- 5 combining Revolving Loan Funds with performance contracting,
- 6 or combining them with other streamlined approaches for that
- 7 process, by working, for example, with state GSA equivalents
- 8 and landlord agencies, and I included these nine items,
- 9 actually 10, I think there is a number here on my slide,
- 10 sorry, these are elements that were called out by a number
- of organizations working with NASEO, including the Energy
- 12 Services Coalition, the National Association of Energy
- 13 Services Companies, and our own members, to identify those
- 14 state programs that had really streamlined this process, the
- 15 performance contracting process, in particular. And you
- 16 will see enabling legislation which most states do have, but
- 17 much of this comes down to adopting and adapting other
- 18 states' best practices, for example, pre-qualifying the ones
- 19 that perform these retrofits, having a common contract with
- 20 agreed upon provisions that meet the states' needs first and
- 21 foremost to get results, but also that are presented in a
- 22 way that helps to execute the process more quickly. So, we
- 23 have a great more detail in this area that we could go into,
- 24 but I wanted to raise it because, as Stimulus funding ramps
- 25 down, we need to begin to think about other sources of funds

1	to	continue	the	kind	of	retrofits	that	are	underway	. A	ınd

- 2 while this is not a new idea, I do think the evolving nature
- 3 of it and the innovation that has occurred in the last few
- 4 years, and improvement, frankly, in the results, makes it
- 5 worth revisiting and considering. Next page.
- 6 As I mentioned, I thought it was important to spend
- 7 a little more time in this area, and we use the example in
- 8 Kansas frequently, partly because it is a very successful
- 9 program, but also, as you might guess, not a state with
- 10 tremendous financial resources, it is not a particularly
- 11 large state in terms of population, but the Performance
- 12 Contracting Program and their Public Buildings Program was
- 13 initiated, I believe, about seven years ago, and with a
- 14 staff of four or five people, they managed to retrofit
- 15 through their program nearly 70 percent of the state-owned
- 16 building stock in Kansas with virtually no investment from
- 17 the state. And they had a somewhat narrower scope of the
- 18 retrofit, it was certainly not only low-hanging fruit, it
- 19 was a full building retrofit, but they did have a somewhat
- 20 narrower scope. But the elements of this program, some of
- 21 which were on the previous slide, had a lot to do with the
- 22 ability to move forward quickly and result in the retrofits
- 23 it did; but, probably the most important mechanism is the de
- 24 minimus portion of each retrofit project goes back into the
- 25 program to pay for technical assistance and help for those

	1	end use	agencies	that are	involved	in th	ne retrofit	, so	that
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- 2 they have some assistance in getting that work done. And,
- 3 again, a program that is very closely tied with their GSA
- 4 equivalent agency in the state, and just a good example of a
- 5 strong partnership across state agencies. Next slide.
- 6 The residential area, one trend that we are seeing,
- 7 and this was occurring, frankly, before the advent of
- 8 Stimulus and ARRA, but is really accelerated. In the Home
- 9 Performance with Energy Star Programs, there are, I believe,
- 10 some 21 or 22 states now that have these programs. They
- 11 have certainly expanded with the use of ARRA funds. I would
- 12 say virtually every state that is operating this program has
- 13 added Stimulus money to the State Energy Program to it. For
- 14 those of you not familiar, this is a somewhat standardized
- 15 program that takes a very holistic approach to ensuring that
- 16 contractors that do retrofits meet certain training
- 17 standards that the state helps set up, it helps market the
- 18 concept of the retrofit, and it helps educate consumers.
- 19 The state is very engaged in the program and it is obviously
- 20 built around the Energy Star brand which has gained great
- 21 respect with consumers, they understand what that means. I
- 22 think this is a trend that appears to be here to stay.
- 23 There are some excellent programs, I happened to mention New
- 24 York's just because it was a very early adopter and they
- 25 have refined their program a great deal over the years, and

- 1 they have expanded dramatically with ARRA funds. And it
- 2 also mentions Maryland, again, because one of the earlier
- 3 slides I talked about the harmonization of training
- 4 standards throughout the Mid-Atlantic Region, and much of
- 5 that idea was generated from Maryland's desire to do that
- 6 and the experience that they had through operating the Home
- 7 Performance Program prior to ARRA, and then seeing the
- 8 opportunity that these additional funds brought. They
- 9 recognized that they really needed to streamline their
- 10 process and take it to the next step, and that is kind of
- 11 how that happened.
- 12 Just a couple of other quick items here, another
- 13 acronym, NHPC, I should have spelled out, the National Home
- 14 Performance Council, this is a relatively new educational
- 15 organization that has been set up to help states and the
- 16 private sector improve and refine these Home Performance
- 17 with Energy Star Programs in partnership with the Department
- 18 of Energy and the U.S. Environmental Protection Agency.
- 19 They are becoming a great resource in this area and NASEO is
- 20 working closely with them. And lastly, we are in the middle
- 21 of developing a report on these programs across the states,
- 22 and I think that will be very beneficial; unfortunately that
- 23 will not be ready until sometime in late September, but we
- 24 would be happy to make it available to those that are
- 25 interested. Next page.

1	And just a quick summary. I think, in general, with
2	the use of the ARRA funds and building programs, many, if
3	not all, states saw a need to incorporate some portion of
4	their funds towards self-sustaining programs, whether that
5	is a revolving fund, or performance contracting, or other
6	on-bill financing. As I mentioned, the change in the PACE
7	program for the residential sector has been the blow in the
8	last week in that it is not moving forward, it is uncertain
9	how that will affect the commercial sector, but, still,
10	these self-funding or self-sustaining programs, I think, are
11	really a major trend in the building area across the state
12	programs using Stimulus funds, and that is not the entire
13	picture, but it is an important element and helps carry
14	those programs forward.
15	Another item I just wanted to touch on briefly, that
16	there is increasing interest in, and that is that market for
17	individual products such as high efficiency air
18	conditioners, heat pumps, furnaces, those things that are
19	turned over every year in the residential sector because
20	they break down or wear out, and by our estimate, about 4.9
21	million air-conditioners a year are changed out because they
22	break, similarly, the other products listed here. And we
23	are working with the Energy Programs Consortium and other
24	national nonprofits around developing lower interest rate
25	loans that would incentivize buying more efficient models at

1	the	time	of	purchase,	and	these	are	very	short	term	turn-
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- 2 around items, it has to be a very streamlined program, but I
- 3 think it is an interesting area where we are trying to
- 4 intercede in the market before somebody buys a lower
- 5 efficiency unit at the time and at a point in time when they
- 6 need to probably replace something quickly, for example, in
- 7 hot weather climate, air-conditioning, or cold weather
- 8 climate, heating.
- 9 And a few other areas here, we are beginning to look
- 10 at some commercial buildings for leases, for the lease
- 11 tenants expanding the use of energy efficient or sometimes
- 12 called "green leases," not a new activity, but one that I
- 13 think holds a lot of promise to be expanded, and we are
- 14 seeing a number of states in the Northeast and the Midwest
- 15 interested in that, and certainly, I believe, I have seen
- 16 that in the West Coast in California, as well. And lastly,
- 17 just to reiterate, in the public buildings area, this is, I
- 18 think, one of the most important things that we can do in
- 19 that it provides the benefit of improving the structure
- 20 owned by the taxpayers and operated on their behalf, and
- 21 also lowering those energy costs and related emissions and
- 22 other things associated with the increased energy efficiency
- 23 over time, and reduces the burden to the taxpayer over time
- 24 for maintaining those facilities. So, it is just an
- 25 excellent choice whether that is schools, or hospitals, etc.

- 1 Next slide.
- 2 And I just wanted to offer our success stories. We
- 3 have on the NASEO website -- most, but not all of these, do
- 4 cover the buildings area. We have about two dozen of them,
- 5 and would invite you to see them. They give you a good
- 6 sampling of the kinds of things states are doing with
- 7 stimulus funding. These are all SEP Stimulus-related. We
- $8\,$  also have some in the Block Grant area and some interesting
- 9 financing approaches. I am not sure if you can see on this
- 10 screen, but to the right is Kentucky's Green Bank which is
- 11 geared very much towards public buildings and they have a
- 12 residential complement, as well, but a very innovative
- 13 program in Kentucky that they have developed on financing.
- 14 Next slide. And just our summary contact information for
- 15 NASEO and website, and I would certainly be happy to take
- 16 any questions or follow-up by e-mail.
- MS. KOROSEC: All right.
- 18 CHAIRMAN DOUGLAS: Well, I would like to start by
- 19 thanking you for that thorough overview; it has been very
- 20 helpful to us sitting here. A quick question: you said that
- 21 NASEO is going to produce a report probably in September
- 22 describing or providing some detail on state programs, and I
- 23 was wondering if you could give us a little more detail on
- 24 what your report is actually looking at and the level of
- 25 detail I guess the depth vs. the attempt at breadth of

- 1 coverage that you are going to try to achieve.
- 2 MR. TERRY: You bet. That is a very good question.
- 3 We are taking sort of a dual approach to that, we are doing
- 4 a simple inventory of all the State's residential and
- 5 commercial building programs, so we have a quick synopsis of
- 6 all of them, so not very much depth, in a portion of the
- 7 report. And another portion is going to be very in-depth on
- 8 the Home Performance with Energy Star Programs in the
- 9 residential sector, how well they are working, how they
- 10 changed as a result of Stimulus funding, the barriers that
- 11 states are seeing, but the audience for that is intended to
- 12 be state officials attempting to implement that program, so
- 13 there will be a lot of depth on the residential portion in
- 14 that area, and then a very broad overview just to give
- 15 people a sense of the variety of residential programs beyond
- 16 that.
- 17 CHAIRMAN DOUGLAS: Okay, that is helpful. Another
- 18 question, you mentioned that a number of states were setting
- 19 up Revolving Loan Funds, or a very significant number of
- 20 states, and most of those were in the area of buildings. We
- 21 have established a Revolving Loan Fund for clean energy
- 22 manufacturing and I was wondering if you know if other
- 23 states have done Revolving Loan Funds outside of the
- 24 building retrofit area and what some of those are.
- MR. TERRY: Yeah, and I do not have very good

- 1 summary data on it, some anecdotal, though, absolutely there
- 2 are, they are certainly fewer, but some of the Revolving
- 3 Loan Funds that make this a challenging question, Texas is a
- 4 good example, originally an existing fund that was focused
- 5 purely on buildings, they expanded that to include
- 6 industrial projects and industrial innovation, and renewable
- 7 energy manufacturing loans, so it is a very broad loan fund
- 8 that covers many areas. There are a number of other states
- 9 Michigan and, I believe, Illinois, that have set up and
- 10 Maryland have set up smaller, but specific Revolving Loan
- 11 Funds for essentially retooling or helping to move existing
- 12 manufacturing into a renewable or efficiency technology that
- 13 they are working on, or well suited to. So, there are, and
- 14 I am sorry to say we do not have very good data on how many
- 15 there are, but it is certainly, I would say, at least 10
- 16 percent of those 32 states have some sort of a Revolving
- 17 Loan Fund component that would address clean tech
- 18 development and that sort of thing.
- 19 CHAIRMAN DOUGLAS: Well, good, thank you. That is
- 20 probably more than I would have guessed, but it does make
- 21 some sense.
- MR. TERRY: And many of those did end up in the
- 23 Midwest, if you think about retooling and all their
- 24 manufacturing, and there is maybe a little bit more legacy
- 25 or sensitivity to that issue in the Midwest, and I think

- 1 that may be why.
- 2 CHAIRMAN DOUGLAS: Okay, thank you. Now, I have one
- 3 more question and I think others at the dais also have
- 4 questions. Our first workshop when we started the IEPR
- 5 update workshops on this topic was on MV&E requirements
- 6 under ARRA, the efforts that the state is taking to meet
- 7 those requirements, the extent to which they represent
- 8 changes from past practices, the extent to which they are
- 9 lessons learned, or changes being required, or initiated
- 10 through ARRA that are likely to become standard practice
- 11 either because it just becomes standard practice in federal
- 12 grants, or because the states see great value in some of
- 13 this and implement it more broadly within their own
- 14 programs. And I was wondering what NASEO's role is in this
- 15 and whether some of these issues will also be covered,
- 16 either in your report in September, or in some other forum
- 17 at NASEO.
- 18 MR. TERRY: You bet. It is an area of great
- 19 interest and, in fact, I left a NASEO Board meeting earlier
- 20 today where we discussed this very topic, so it is timely.
- 21 I think maybe the bad news is that it is something we have
- 22 been working on for a long time in fairly small ways as an
- 23 organization through our Buildings Committee, but with
- 24 regard to ARRA and, I think, broader interest, our work in
- 25 this area is really just beginning. We are working through

- 2 are essentially challenged with wanting to present states
- 3 with good options, but making sure that there is some
- 4 continuity so that we get at best practices in that area,
- 5 and also some coordination with a significant activity that
- 6 DOE is doing in this area, trying to create models, as well,
- 7 that are useful not only to states, but to others. And we
- 8 are really at the beginning of that process, frankly, and
- 9 there certainly are examples of what states are doing in
- 10 this area. But we are fairly early in the process. I wish
- 11 we would have had the opportunity, we are frankly very
- 12 absorbed in getting the ARRA funds moving and helping with
- 13 early implementation, and this is an area that I wish we
- 14 could have addressed six months ago, but we are really just
- 15 now drilling down on it, so I am afraid we do not have
- 16 anything right now that would be a huge help, except for
- 17 some individual states that we could certainly put you in
- 18 touch with. But, in terms of a report or outcome of the
- 19 work with DOE, it is just fresh and beginning.
- 20 CHAIRMAN DOUGLAS: Well, as you know, this is an
- 21 ongoing process, and we are still actually quite early in
- 22 it, particularly as far as the MV&E component is concerned.
- 23 And so, we will look forward to exchanging information with
- 24 you and working with you as we go forward on our parallel
- 25 tracks here, so sharing lessons learned with other states.

- 1 This IEPR Update is focused on IEPR Programs, really, at an
- 2 early stage. We are writing this first assessment over the
- 3 summer at a time in which not all of the contracts have been
- 4 executed to go forward with doing the work, at a time in
- 5 which we are ourselves dealing with how to respond to the
- 6 new rules put in place for PACE programs, just over the
- 7 weekend, really, or on Monday this week. So, this is an
- 8 early look for us, just as it is for you, and we are
- 9 encouraged and pleased that you are doing it. And so, we
- 10 will look forward to working with you. Commissioner Eggert,
- 11 do you have questions?
- 12 COMMISSIONER EGGERT: Yeah, thank you, Madam Chair.
- 13 And thank you very much, Mr. Terry, for sharing this with
- 14 us. I actually have a couple of follow-up questions to the
- 15 Chair's question, having to do with the MV&E and your role
- 16 sort of going into the future. Is it the plan for NASEO to
- 17 remain engaged in evaluation taking data back from the MV&E,
- 18 the results of the evaluation of these programs for future
- 19 reports?
- 20 MR. TERRY: I think, frankly, it is probably a to-
- 21 be-determined yet. I think, at this stage, we are more
- 22 interested in helping states work through their own models
- 23 and processes than getting too engaged in the data. We do
- 24 have somebody that we are bringing on board that is a
- 25 specialist in this area; it is not my area of expertise, as

1	you	might	guess.	But	right	now,	we	are	more	focused	on
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- 2 finding out what the states' needs are, what kinds of models
- 3 they have in place, and where we can find some common area
- 4 with DOE.
- 5 COMMISSIONER EGGERT: Excellent. And then, given
- 6 sort of this recent challenge that we are facing with the
- 7 latest guidance from FHFA, I guess I would ask if you have
- 8 any thoughts on what other financing models we should be
- 9 considering, based on your evaluation of others that are
- 10 currently being pursued.
- 11 MR. TERRY: I do. I think and these are
- 12 preliminary, there is certainly not an easy answer. We were
- 13 certainly hopeful that this would move forward and continue
- 14 to work on that, though it does not look promising. Several
- 15 areas we think will need a new look, more look, more
- 16 innovation. I think on-bill financing certainly will need
- 17 to be re-evaluated, all modified PACE approaches Maine
- 18 comes to mind Maine or New Hampshire, I apologize, I do
- 19 not remember which where they have legislation that
- 20 essentially puts the PACE financing after the mortgage so
- 21 that that issue that Freddie and Fannie have, in particular,
- 22 is mitigated. That is a little bit to-be-determined, how
- 23 all that will work, but that is just emerging, so that is
- 24 another area. And the third one that we have interest in
- 25 and some hope for, there is an existing HUD program, a

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- 2 commonly known throughout the residential bill state market,
- 3 which is a positive good thing, it is operated through
- 4 banks, and it is supported by HUD and well funded. It does
- 5 include provisions for efficiency retrofits, but it is not
- 6 streamlined at this point in a way that would be user-
- 7 friendly for the consumers, so that that remains a major
- 8 barrier, but those are essentially three areas that we are
- 9 focused on right now, in addition in terms of the whole
- 10 house retrofit, or a major retrofit. As I mentioned, the
- 11 secondary market project we had is really geared toward
- 12 those urgent or immediate replacements of specific HVAC
- 13 systems, or water heaters, that sort of thing, and that is a
- 14 much narrower project, though.
- 15 COMMISSIONER EGGERT: And then, I quess my last
- 16 question has to do with other pending Federal legislation,
- 17 and I am curious as to whether or not NASEO is either
- 18 currently or plans to get involved in taking some of these
- 19 lessons to help shape future Federal legislation, either for
- 20 incentive programs or otherwise.
- 21 MR. TERRY: Absolutely. We are very engaged
- 22 currently, and probably the best example I could give you is
- 23 the much talked about Home Star Program, which has been
- 24 working its way through Congress over the past year. We
- 25 have been informing the development of that legislation,

- 1 both from the perspective of how states would find it most
- 2 useful, making sure that it is flexible, for example, and
- 3 can be implemented by states in the way that they choose,
- 4 but also informing it with very specific details that we
- 5 have learned, frankly, from ARRA and the Stimulus funding
- 6 where states have had to ramp programs in dealing with
- 7 certain regulations and provisions that slowed the
- 8 implementation of those retrofit programs greatly; also,
- 9 looking at the contractor training and certification, as
- 10 well. So, that process has really been one that has
- 11 informed it along the way. The other area I think that is
- 12 probably most appropriate here is just the idea of more
- 13 Revolving Loan Funds, perhaps tagging Federal and State
- 14 Revolving Loan Funds, or creating a funding stream to create
- 15 additional Revolving Loan Funds is another area that is
- 16 being looked at. In the commercial building area, and in
- 17 residential also, we have also been very active in building
- 18 Codes and promoting funding for implementation of Codes at
- 19 the local level and support for states in doing that. So,
- 20 really, sort of two sides to that.
- 21 COMMISSIONER EGGERT: Well, thank you very much. It
- 22 is clear that NASEO is doing a lot of extremely useful and
- 23 important work and, again, we really appreciate your joining
- 24 today.
- MR. TERRY: Thank you.

1 COMMISSIONER EGGERT: And I am going to sort of	i Look
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- 2 over across the dais here to see if there are others who
- 3 might have questions.
- 4 MS. KOROSEC: All right, do we have any questions
- 5 from anyone here in the room? All right, we do have several
- 6 questions on WebEx. Our first is from Benjamin Peters.
- 7 Donna, can you open Benjamin's line? All right, Benjamin,
- 8 you are alive.
- 9 MR. PETERS: Hi there. I had a question about PACE
- 10 Program, specifically. I wanted to know, given that all the
- 11 funding that had been allocated for the PACE Program is now
- 12 looking to be moved elsewhere, you had mentioned this
- 13 briefly, but could you expand on that? Is the money going
- 14 to be used for the low interest loan programs or allocated
- 15 to different incentive programs? Or where can we stay up to
- 16 date on where the PACE money is going to be resolved to?
- 17 MR. TERRY: The fast answer is that the discussions
- 18 are underway currently and because the money is in different
- 19 programs and different hands, as an example, the money that
- 20 went to the State Energy Program that states have determined
- 21 to put in the residential area, some of which went to PACE
- 22 oriented programs, that will be up to the state to determine
- 23 how to reallocate or use that in the residential area, and
- 24 there may be other program that they have, that they feel
- 25 would be more expeditious to shift to. So that is really a

- 1 state-by-state decision. There is also a large chunk of
- 2 funds, I believe nearly \$400 million, that was competitively
- 3 awarded by the Department of Energy, much of it to Regional
- 4 consortium or local community groups, and much of that was
- 5 dedicated to PACE, and I think that is a much more
- 6 challenging one in that so many of those organizations
- 7 really built their program or process around PACE, and I
- 8 think it is too early to tell at this point, but clearly, to
- 9 be productive with the money, they will need to use it in a
- 10 different way, at least that is my read of it, and I think
- 11 most people's. And I am not sure what the Department of
- 12 Energy will do, that is a little bit different kind of money
- 13 that the Department will have say-so about how that is used.
- 14 The state funds, it will be up to the State Energy Program,
- 15 that will be up to the state to determine how best to
- 16 allocate those resources.
- MS. KOROSEC: All right, Sunil [phon], can you go
- 18 ahead and ask your question? All right, I do not know if
- 19 he is able to get through, but the question he sent us is,
- 20 "How much funding is going to energy efficiency like
- 21 lighting, etc.?"
- MR. TERRY: Out of the Stimulus funds, we do not
- 23 have that level of detail. Within the State Energy Program,
- 24 we really do not have that level of detail on a national
- 25 basis. I would expect that the vast majority of that is, of

- 1 course, within the building sector, and I would think it
- 2 would be a minority of the amount; however, in the Block
- 3 Grant area, there was a substantial amount of funding used
- 4 by local ordinances and cities for LED street lighting, for
- 5 example, and that was one of the technology areas that was
- 6 actually recommended or suggested as a part of that program,
- 7 so many cities and localities took advantage of that. Some
- 8 of the states did, as well. But, in the Block Grant
- 9 Program, you would have seen solid state lighting figure
- 10 more prevalently in terms of a percentage of the program. I
- 11 do not think there is good data on that yet either. The
- 12 Department of Energy would certainly be the best source on
- 13 that program, though.
- 14 MS. KOROSEC: All right, our next question is from
- 15 Mary Kimberlin. Mary, your line is open.
- MS. KIMBERLIN: I am just interested in upgrading my
- 17 house, I originally thought I was going to buy into solar
- 18 packages when they were building, but [inaudible] just
- 19 wondering what the program -
- 20 MS. KOROSEC: Mary, I am sorry, your line is cutting
- 21 in and out. Could you please repeat the question?
- 22 MS. KIMBERLIN: I just need to know how to answer
- 23 individual homes, [inaudible] I need to know what to do
- 24 about upgrading.
- MR. TERRY: That is probably a challenging question

- 1 for me to answer in a very useful way, but I guess the first
- 2 thing I would say, certainly, is to visit with your
- 3 resources in California, either the Commission's website as
- 4 a start, or people they would recommend. But, in general,
- 5 if you can find a state or local residential efficiency
- 6 program that might offer some recommendations or guidance,
- 7 or some sort of contractor certification program where you
- 8 would have some comfort in knowing that you were dealing
- 9 with somebody who really understood efficiency retrofits in
- 10 your home, I think that would be probably my suggestion as a
- 11 place to start. It is not an easy answer, but I think the
- 12 level of activity in California, in particular, with utility
- 13 programs and the Commission's efforts, it would probably
- 14 make it easier than many states. But that is where I would
- 15 start.
- MR. BARTHOLOMY: Mary, this is Panama Bartholomy
- 17 from the Energy Commission. Where do you live?
- 18 MS. KIMBERLIN: Moreno Valley in California,
- 19 Riverside County.
- MR. BARTHOLOMY: And so, do you get your electricity
- 21 from Southern California Edison?
- MS. KIMBERLIN: Yes, uh huh.
- MR. BARTHOLOMY: I am sorry, could you repeat that?
- MS. KIMBERLIN: Yes, I do.
- MR. BARTHOLOMY: Your best resource is going to be

1	call u	o Southern	California	Edison	for	the	rebates	that	they
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- 2 provide and, then, in September they are going to be rolling
- 3 out a brand new home retrofit program that will provide up
- 4 to \$3,500 per home for a comprehensive home energy retrofit,
- 5 and they are going to be working to coordinate it with all
- 6 of the other retrofit funds and the tax credits at the
- 7 federal level, as well. So, the best thing you can do is to
- 8 go onto the Southern California Edison website and, under
- 9 the Efficiency tab, contact the person under that number,
- 10 under that tab. But, at this point, your utility is going
- 11 to be your best contact.
- MS. KIMBERLIN: Thank you. I will do so.
- MS. KOROSEC: Great, I think we have time for one
- 14 more question from the City of Chula Vista. Could you go
- 15 ahead and open the line, Donna? All right, your line is
- 16 open, go ahead and ask your question.
- 17 MR. MEACHAM: Yes, this is Michael Meacham with City
- 18 of Chula Vista, and I am here with representatives from
- 19 Council Member Benoussan and Castaneda's Office. Our
- 20 question was about the PACE Program and I know there has
- 21 been some dialogue about this locally, but we wanted to make
- 22 sure it was discussed at the state and federal level, too,
- 23 and that is with regards to the loan position; we wondered,
- 24 from a city standpoint, if we are doing these funds, is it
- 25 actually not more important for us that we have the sense of

- 1 security that we know we are eventually going to get paid,
- 2 particularly if, even in the worst of circumstances or
- 3 times, we are talking about 10 or 15 percent of the homes,
- 4 if we have a large number of people that actually pay the
- 5 loans, we can plan for that kind of delay as long as we know
- 6 that eventually people will pay? So that, if it is treated
- 7 more like an assessment and that the debt is with the parcel
- 8 and transfers from owner to owner, then the city or
- 9 jurisdiction knows that eventually they will get reimbursed,
- 10 we would be able to work with that kind of a process. Is
- 11 anybody looking carefully at that, at a broader level at the
- 12 state or federal government?
- 13 CHAIRMAN DOUGLAS: Thanks for that question. I will
- 14 jump in. This is Karen Douglas. The Energy Commission has
- 15 been looking closely at all of the possible permutations of
- 16 PACE or PACE-like, and we are not prepared, I think, at this
- 17 time to make recommendations about what the best options out
- 18 there are, but as you note, there certainly are options and
- 19 there are permutations, and so I think we may be in a
- 20 position in the future, and we would certainly like to work
- 21 with local governments who have on-the-ground experience
- 22 with these programs and talk about what some of these
- 23 options are.
- MS. KOROSEC: All right, I think, with that, we will
- 25 be ready to move on to our next speaker. Thank you, Mr.

- 1 Terry.
- 2 MR. TERRY: Thank you.
- 3 MS. KOROSEC: Next, we will be hearing from Deborah
- 4 Godfrey, Energy Commission staff, who is going to give us a
- 5 review of the Block Grant Program.
- 6 MS. GODFREY: Good morning. I am Deborah Godfrey
- 7 with the Special Projects Office of the California Energy
- 8 Commission. The Energy Efficiency and Conservation Block
- 9 Grant, as Chairman Douglas mentioned, was an enormous task
- 10 for us and I think we have done quite well overall with this
- 11 and I am real pleased to present some evidence to show that.
- 12 I will be briefly going over the Block Grant Program, the
- 13 program design, the summary of the funding efforts, and then
- 14 taking some questions at the end.
- 15 As we all know, the Federal has imposed quite a bit
- 16 of regulation on this project and, also, they had a very -
- 17 they had some goals, to reduce the fossil fuel emissions
- 18 created within the jurisdictions in a manner that was
- 19 environmentally sustainable, to the extent practicable, to
- 20 maximize the benefits for local and regional communities, to
- 21 reduce the total energy use of the eligible entities, and to
- 22 improve energy efficiency in the transportation sector, the
- 23 building sector, and other appropriate sectors. The Federal
- 24 requirements were, of course, accountability and
- 25 transparency, prevailing wage, buy American, and there are

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1	some	strict	reporting	requirements,	, and	some	Iundina

- 2 prohibitions gambling establishments, aquariums, zoos,
- 3 golf courses, and swimming pools. And recipients needed to
- 4 have a Dun & Bradstreet number and be registered with the
- 5 Central Contract Registration. While that might not appear
- 6 to be a problem when you consider that the Commission was
- 7 responsible for the small cities and counties in California,
- 8 some of them were so small that they did not have Dun &
- 9 Bradstreet numbers. The U.S. DOE's portion covered the
- 10 large cities and counties, and those were with the cities of
- 11 a population greater than 35,000, or counties of greater
- 12 than 200,000, and we were not involved in that portion,
- 13 those cities needed to apply directly to the Department of
- 14 Energy.
- We received \$49.6 million. Of that \$49.6 million,
- 16 there was a requirement that 60 percent needed to pass
- 17 directly through to the small cities and counties not
- 18 receiving their allocation from the Department of Energy,
- 19 and the remainder was at the discretion of the Commission.
- For the program design, we went and did about 48
- 21 workshops throughout the state and solicited comments from
- 22 all of the affected jurisdictions and tried to determine
- 23 which way they all thought would be the most fair,
- 24 considering that we were dealing with cities as small as a
- 25 population of 90 up to the maximum of 34,998 for one city.

1 W	Iе	needed	to	establish	the	minimum	funding	levels	to	make
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- 2 this worth some of the small cities' and counties' effort,
- 3 especially considering their budget cuts and staffing cuts.
- 4 We, of course, required the it needed to be cost-effective
- 5 energy efficiency, and so, because of those readings, we
- 6 decided that the best way to go for the extremely small
- 7 cities and counties, we needed to come up with something
- 8 that would work for them, so we came up with three types of
- 9 applications: those with the direct equipment purchase, the
- 10 energy efficiency projects, and municipal financing
- 11 programs, or combinations of either direct equipment
- 12 purchase or energy efficiency coupled with the municipal
- 13 financing program. Of course, that may now be up for
- 14 review.
- 15 The types of applications, you can refer to Exhibit
- 16 2 of our grant application packet for the list of items that
- 17 were available under the direct equipment purchase. The CEC
- 18 staff already historically knew that these measures were
- 19 cost-effective, and it was made easier for the small cities
- 20 and counties to pick some items from this list and implement
- 21 them within their jurisdiction. The energy efficiency
- 22 project, the second application type, required the
- 23 jurisdiction to conduct and submit a Feasibility Study
- 24 similar to what they do for any of our other programs and
- 25 for ARRA loans, as well. And, of course, the municipal

- 1 financing program.
- 2 In trying to keep this similar to what the
- 3 Department of Energy was doing for the large jurisdictions,
- 4 we did a base allocation of \$5.00 per person, we were
- 5 required to use the Department of Energy's population
- 6 estimates, which were slightly different than those
- 7 available from the California Department of Finance. We
- 8 also, because of the current economic situation in
- 9 California, also added a multiplier based on the county
- 10 unemployment rate. Minimum funding levels we came up with
- 11 were \$25,000 for the cities or towns, and \$50,000 for the
- 12 counties. Some of our criteria we established for the small
- 13 cities and counties, or be allowed for designated
- 14 partnerships, sometimes some of those cities were so small
- 15 and so tiny that they just did not have the resources
- 16 available to do anything by themselves, so we required them
- 17 to couple up with the another small city or county, and pick
- 18 whichever one seemed to have the most resources and go with
- 19 them to head up their efforts. The focus was also on energy
- 20 efficiency and cost-effectiveness, and also based on the
- 21 ability to effectively administer the project. As we
- 22 mentioned before, there were some serious reporting and data
- 23 collection requirements, they had to adhere to the
- 24 administrative expense cap, and they had to complete the
- 25 project within the required timeframe.

1	For the cost-effective energy efficiency projects,
2	we determined that it needed to be based on energy saved per
3	dollar spent, not dollar saved, so utility rates did not
4	matter in this case. It needed to be a minimum of 10
5	million source BTUs saved per thousand dollars of EECBG
6	money spent, and a Feasibility Study was required to verify
7	the energy savings. The direct equipment purchase, one of
8	the types as I mentioned available as Exhibit 2 in our grant
9	solicitation, were already pre-defined for the Applicant.
10	We used things that we knew them to be historically the most
11	cost-effective for the direct equipment purchase, such as
12	the lighting retrofits and controls, street lighting - and I
13	did hear a question about that - and traffic signals, HVAC
14	modifications and controls, automated energy management
15	systems, motors, variable speed drives and pumps, water
16	wastewater systems processes and controls. This is not a
17	definitive list. We also offered at these seminars and the
18	webinars and our individual meetings our assistance either
19	with identifying projects, or in the grant application
20	itself, and we did spend countless hours working on these
21	areas. We provided assistance over the phone whenever those
22	cities could not come to us, or we could not go to them, we
23	made numerous site visits, and we evaluated projects and
24	helped them narrow down what they wanted to do. There were
25	no cities out there that did not have a lot of things they

1	would	like	to	do,	but	unfortunately	y with	the	limits	of	the
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- 2 amount, \$25,000 or \$50,000, it made some projects not
- 3 feasible. And we also provided up to \$20,000, which is our
- 4 standard approach to enable jurisdictions to identify some
- 5 of those projects that they may have.
- 6 We encouraged match funding and partnerships, and I
- 7 was quite pleased to notice that many of our jurisdictions
- 8 actually did come up with some cost share, themselves, which
- 9 is pretty impressive considering the economic times. We
- 10 also encouraged the use of utility incentives and we also
- 11 made available our 1 percent ARRA loans, which are for this
- 12 program, as well, and our 3 percent ECAA loans, which are
- 13 our standard loans that we offer. And also, we encouraged
- 14 bonds and other sources of funding.
- 15 Again, we encouraged partnerships because it could
- 16 reduce the overhead and reduce the administrative burden,
- 17 and provide some expertise for the extremely small and I
- 18 hate to use the word "unsophisticated," but some of the
- 19 really tiny jurisdictions out there. Again, with prevailing
- 20 wage, that has been something of an issue, there are some
- 21 differences between the federal and the state
- 22 classifications of jobs. The Buy American, we needed to get
- 23 some clarification on a number of items and products that
- 24 appeared to be American-made that were not. While we did
- 25 not have problems with gambling establishments, aquariums,

1	or	700S.	there	were	а	few	times	where	we	did	have	some

- 2 community centers that had a swimming pool or a golf course
- 3 that was connected to some other building in such a way that
- 4 could possibly cloud the issue as to whether or not this
- 5 money would potentially be going towards a swimming pool
- 6 when, in fact, it might be going towards the senior center
- 7 that was on the other side of the wall. But we were able to
- 8 get around those.
- 9 CHAIRMAN DOUGLAS: And, Ms. Godfrey, the swimming
- 10 pool prohibition, of course, we have been doing our best to
- 11 honor to the extent that it makes sense for us, but that is
- 12 not statutory, right? That is just broad guidance?
- MS. GODFREY: Yes. And, in fact, there is one that
- 14 I noticed in their award, it was listed as a pool, but it is
- 15 a carpool, quite different. But, no, with community
- 16 centers, we did have some that, of course, because it is
- 17 California, and I think this restriction was meant by the
- 18 Feds to ensure that all of us Californians were not lounging
- 19 about the pool, and in the Midwest, they needed possibly
- 20 more energy efficiency measures. But, we did not have too
- 21 many, most people understood immediately the restrictions.
- We also had a pretty tight schedule. Our
- 23 application went to DOE in June of last year, so just a
- 24 little over a year ago. We received the money in September
- 25 of last year. We released our funding solicitation in

1	October,	we	encumbered	the	money	by	May	$12^{\rm th}$	at	the	Business
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- 2 Meeting, and all the projects have until September 12 to be
- 3 completed and paid.
- Well, this is what we did. As I mentioned, we had
- 5 to get at least 60 percent of the money out to the small
- 6 jurisdictions, and because we knew that there would be some
- 7 under-subscription, we allocated actually 71.48 percent, and
- 8 that was not a magic number, that was just the \$5.00 per
- 9 head plus the multiplier for the unemployment rate, so we
- 10 had a potential of 309 eligible cities and counties, which
- 11 is quite a lot considering there are 478 cities in
- 12 California, and 58 counties. So, we ended up with 44 of the
- 13 58 counties, and 265 of the 478 cities, so we ended up with
- 14 a good portion of all the cities and counties out there,
- 15 which I think is somewhat counterintuitive to what everyone
- 16 considers the way California looks. I think everybody out
- 17 there thinks California is nothing but these big huge
- 18 cities, and actually we have so many that are so tiny, we
- 19 have some that are as small as 90 people. So, altogether,
- 20 we allocated \$35.454423 million towards the Block Grant, and
- 21 out of that, out of the 309 potential Applicants, we
- 22 received applications representing 279 of them, which is
- 23 pretty good. I think it demonstrates that our efforts at
- 24 the seminars and the meetings that we conducted at numerous
- 25 locations up and down the state before we were developing

- 1 the program, while we were developing the program, after we
- 2 developed the program, I think it shows that it really did
- 3 pay off. So, we received the applications from 237 of the
- 4 cities and towns and 42 of the 58 counties. So, we had -
- 5 and, as I mentioned, we encouraged collaborations, so we
- 6 ended up with nine collaborations, and they ranged from
- 7 three entities up to 26 entities. So, altogether, with the
- 8 under-subscription that we knew would happen, we still ended
- 9 up with getting about 67 percent of the money out where we
- 10 were required to get at least 60 percent.
- Of the applications that we received, of the 210, we
- 12 had 126 that did go for the direct equipment purchase and,
- 13 as I mentioned, this made the most sense for some of the
- 14 small cities and counties. We had 82 of the energy
- 15 efficiency projects. Again, many of those items that were
- 16 technically on an energy efficiency project application were
- 17 actually items that were on the direct equipment purchase,
- 18 as well, but because they coupled them maybe with one small
- 19 other project that was not on the direct equipment purchase,
- 20 it required their application to become an energy efficiency
- 21 project, and required the full Feasibility Study. We only
- 22 had one that went for a straight Municipal Financing
- 23 Program, and we had one that did a combination of a
- 24 Municipal Financing Program and a direct equipment purchase.
- 25 So, altogether, it really is not as bad as it looks. We

- 1 ended up with roughly \$1.2 million going to municipal
- 2 financing because of the one that was a combo of the
- 3 Municipal Financing Program and the direct equipment
- 4 purchase, \$300,000 of that was for the direct equipment
- 5 purchase, so that lessened that somewhat.
- 6 We also encouraged leverage of funds. With our ECAA
- 7 3 percent loans, we ended up with eight loans for over \$4
- 8 million, with the 1 percent loans, which were quite popular,
- 9 and I really was quite impressed with some of these
- 10 jurisdictions' willingness to go out and take out loans to
- 11 accomplish a much larger project than they could using
- 12 solely Block Grant funds, so we ended up with 10 of those
- 13 for almost \$10 million, which is quite impressive. And
- 14 match share, which was even more impressive, we ended up
- 15 with almost \$20 million of match share from these cities and
- 16 counties, and considering how financially strapped all of
- 17 them are, to be able to put up with some money, I think,
- 18 certainly demonstrates their interest in energy efficiency.
- 19 It is quite commendable.
- 20 The energy savings and this is an estimate for one
- 21 year kilowatt savings are almost 35 million, therms -
- 22 652,000, and  $CO_2$  reduction of almost 16,000 tons. And, most
- 23 impressively, we estimate that there were approximately 362
- 24 jobs created through the Energy Efficiency Conservation
- 25 Block Grant.

<pre>1</pre>	we have	30 that	did not
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- 2 apply and, so, when asked what we would do differently,
- 3 there is not a lot that I think we could have done
- 4 differently short of having a lot more money to give them,
- 5 which of course was not up to us. The 30 applicants that
- 6 did not apply decided that they did not have the resources,
- 7 again, though we attempted to keep the application as simple
- 8 as possible, sometimes looking at a packet from any
- 9 government entity is intimidating, and they either said they
- 10 did not have the grant writing experience, or did not have
- 11 the time, or did not have the personnel. In fact, one city
- 12 said that, because of budget cuts, one gentleman that would
- 13 potentially be writing the grant was also at that point
- 14 literally the one that opened the City Hall and, in the
- 15 morning, was the dog catcher, the head of the garbage
- 16 department, and was actually doing 17 jobs. So, when they
- 17 said they did not have time, you can understand they truly
- 18 did not. We did offer assistance, but unfortunately it
- 19 still required them to apply, to go before their City
- 20 Council to get a resolution, and submit the application to
- 21 us and, then, of course some of the other problems were they
- 22 could not they found the reporting requirements just more
- 23 than they could do, considering their staff productions.
- 24 And there were a couple that said that they could not even
- 25 identify any projects in their cities and counties, and

- 1 those were because they had all brand new buildings, or were
- 2 so small they literally did not have any stoplights, any
- 3 street lights, nothing that they could use any of our money
- 4 for. And that is it. Do you have any questions? Okay,
- 5 thank you.
- 6 COMMISSIONER EGGERT: Actually, just a quick
- 7 question. Thank you very much, Deborah. You know, I think
- 8 it is impressive with respect to the number of different
- 9 entities, 279 cities and counties that had actually applied
- 10 and received the funds. I know one of the sort of
- 11 evaluation criteria, I believe, or if I remember correctly,
- 12 was sort of the payback period for each of these projects,
- 13 and do you have kind of a sense of what the payback period
- 14 average or range of paybacks for these?
- MS. GODFREY: The projects were so diverse, I do not
- 16 have a number; for each major, I can get back to you with,
- 17 say, for lighting, most of them I think for the lighting
- 18 were about six years.
- 19 COMMISSIONER EGGERT: Okay.
- 20 MS. GODFREY: And that was the most common use of
- 21 these funds.
- 22 COMMISSIONER EGGERT: Yeah, I mean, one of the
- 23 advantages of the way this program was designed and the
- 24 investments that are being made is that, you know,
- 25 subsequent to that payback period, you know, not only would

1	<b>⊥</b> 1	1		<b>⊥</b> 1 ⊥	2		<b>⊥</b> 1		
1	tne	peneilts	ΟI	tnat	investment	accrue,	tne	savings	wlll

- 2 continue to accrue throughout the life of the equipment.
- 3 MS. GODFREY: Yes. Most of these projects should
- 4 have at least a 25-year life.
- 5 COMMISSIONER EGGERT: Excellent. Thank you.
- 6 CHAIRMAN DOUGLAS: Actually, that reminded me of a
- 7 question I had, as well. I would be really interested in
- 8 seeing information, and you may have provided it outside of
- 9 this presentation, but really breaking down what the local
- 10 governments did, you know, categorizing them in some way so
- 11 we have a sense of certain percentage pursued, X type of
- 12 project, and it had a certain related payback period and I
- 13 would be interested in knowing particularly with a program
- 14 like this that was so driven by the local governments' own
- 15 decision about what they wanted to spend the money on, to
- 16 see what, in fact, the money was spent on and how that broke
- 17 down across the different local governments that
- 18 participated.
- 19 MS. GODFREY: I can certainly provide that. As I
- 20 mentioned, the 126 applications that were under the direct
- 21 equipment purchase are very easily measured. The energy
- 22 efficiency projects are a little more convoluted because
- 23 they have some components of the direct equipment purchase
- 24 and maybe a couple of other little oddities exclusive to
- 25 their jurisdiction, but I can certainly provide you those

- 1 numbers.
- 2 COMMISSIONER EGGERT: Actually, just a follow-up
- 3 under that one. I am curious and maybe this is a part of
- 4 the MV&E, but is there any plans to do future surveys?
- 5 MS. GODFREY: Oh, yes. It is part of the MV&E, yes.
- 6 They will be conducted, and also, because of the reporting
- 7 requirements, we will be looking at a lot, and we have
- 8 already informed the cities and the counties that they need
- 9 to make available the sites at any time, and document and
- 10 pictures, and we will be there looking.
- 11 COMMISSIONER EGGERT: I am curious even potentially
- 12 like along the lines of where in terms of where they made
- 13 their decisions about what to invest in, like what types of
- 14 resources did they tap into, where did they get the
- 15 information.
- 16 MS. GODFREY: Well, a lot of them, for the lighting,
- 17 of course, use our California Lighting and Technology, which
- 18 is some of our efforts here with the Energy Commission, and
- 19 also with some of the other measures such as pumps and
- 20 things like that, they contacted their utilities, and there
- 21 were a number of private entities out there that were also
- 22 providing some guidance.
- 23 COMMISSIONER EGGERT: Thank you.
- 24 CHAIRMAN DOUGLAS: And Commissioner Eggert may have
- 25 asked this, but just asking it in a different way, I think

1	we wo	uld	like	to	see	information	on	where	the	retrofits	that

- 2 were undertaken in a block grant program drew on some of the
- 3 cutting edge new technology, which in many cases I think
- 4 they did, although many other very very good projects were
- 5 just a matter of basic upgrades to very old systems, and
- 6 certainly need not use the most advanced technology to
- 7 provide huge energy savings.
- 8 MS. GODFREY: Well, I do know that some of the
- 9 jurisdictions and the east of San Diego did some extensive
- 10 lighting comparisons by installing, say, one or two of each
- 11 or of a variety of things that were offered to them
- 12 through the Lighting and Technology Center and then, using
- 13 public comments and staff appraisals, they made a
- 14 determination as to which was the most effective and most
- 15 appropriate for their jurisdiction.
- 16 CHAIRMAN DOUGLAS: Well, you know, that would be
- 17 valuable if we get that in the docket in the IEPR so that we
- 18 can take a look at that, some of the lessons learned, and
- 19 some of the real potential that can come in the future in
- 20 analyzing the Block Grant Program would help, it would help
- 21 to have that information.
- MS. GODFREY: We will certainly get it to you.
- 23 CHAIRMAN DOUGLAS: Great, thank you.
- 24 MS. KOROSEC: All right, we have no questions on the
- 25 WebEx, we will move directly to our next speaker, who is Mr.

- 1 Gabriel Karam from San Joaquin County.
- 2 MR. KARAM: Good morning, Madam Chair and Committee
- 3 members. Before I begin my presentation, I would really
- 4 like to thank you, the Commission, for granting San Joaquin
- 5 County this grant, and the staff that have worked with us
- 6 from the beginning and their amazing support and guidance
- 7 throughout this. I would like to mention their names again
- 8 because I really really appreciate them, and I want to make
- 9 sure they are recognized. We started back in December
- 10 meeting with Adel Suleiman and Deborah Godfrey, thank you,
- 11 Deborah, and later on continued support and answering
- 12 questions for us over the telephone and meetings with,
- 13 again, Adel, Deborah, Haile Bucaneg, Phil Dyer, Renee
- 14 Webster-Hawkins, Kevyn Piper, Chris Scott, and Michelle
- 15 Messinger. So, I just wanted to make sure I say their names
- 16 because, if it was not for them, San Joaquin County would
- 17 have lost more jobs, at least in my department, and this
- 18 grant would not have been possible, so thank you again.
- 19 I am the Director of Facilities Management in San
- 20 Joaquin County and this grant is being administered by my
- 21 department. This presentation objective is to review San
- 22 Joaquin County's efforts to improve energy efficiency
- 23 through equipment replacement, using CEC grant funds.
- I want to tie the San Joaquin County policies, to
- 25 relate them to the same policies that California has and

1	also	the	Federal	Government	of	being	green.	And	back	in
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- 2 February of 2008, San Joaquin County Board adopted a Green
- 3 Purchasing Policy that promotes sustainability of the
- 4 environment. It states the County shall purchase energy
- 5 efficient equipment with up-to-date energy efficient
- 6 functions, County shall replace inefficient lighting with
- 7 energy efficient equipment, County shall purchase products
- 8 for which USEPA Energy Star certification is available, and
- 9 meets Energy Star certification.
- 10 San Joaquin County is committed to being green.
- 11 Last year, my department completed the construction of the
- 12 San Joaquin County Administration Building, which is a
- 13 250,000 square foot building, it has over 500 staff in it,
- 14 14 departments, and it has been certified by the U.S. Green
- 15 Council as a LEED Gold building, and it is the first LEED
- 16 Gold building in Stockton. And we are very proud of it. I
- 17 hope that, if you are ever in the area, please stop by, I
- 18 would love to give you a tour, it is a really amazing
- 19 building, we are very proud of it. This building has on the
- 20 roof, as you see here in an area of the photo, it shows the
- 21 solar panels on the roof, which help us get extra points
- 22 towards the certification. We were able to fit only about
- 23 300 solar panels because of adjacent building and the
- 24 shading on the roof, so that is the maximum we were able to
- 25 fit, and it produces about 5 percent of the total energy

- 1 building needs.
- 2 Facilities Management budget is \$16.4 million, and
- 3 staffing this week is 50, two weeks ago, I had 63 staff
- 4 members, so I had to, because of the economy, we had to lay
- 5 off 13 people, and if it was not for this grant, I would
- 6 have been at about 45-46, so, again, thank you for the
- 7 grant, for saving a few of my internal staff hopefully at
- 8 least for two years, and hopefully in the next two years,
- 9 the economy will improve and I will be able to keep them -
- 10 unless you give me more money, that would be even greater,
- 11 thank you!
- 12 The total number of structures we maintain are 416
- 13 in San Joaquin County, approximately 4 million square feet.
- 14 The amount of grants San Joaquin County qualified for is
- 15 \$836,781. The grant funds will be expended as follows: we
- 16 elected to go with direct purchase of equipment, \$644,800,
- 17 total labor is \$411,000, and the overhead is \$30,781. Now,
- 18 the county is sharing in the labor cost, our total share in
- 19 the labor cost is \$250,000. And I obtained these grants I
- 20 mean, the \$250,000 is from an energy fund that we have
- 21 accumulated over the years from rebates on other energy
- 22 projects and so we combined them with this to be able to do
- 23 all of these projects here.
- 24 This grant will assist the county with projects to
- 25 reduce fossil fuel emissions and improve energy efficiency

- 1 in buildings, and these are the same goals that the Federal
- 2 Government has, the State of California has, and San Joaquin
- 3 County, Board of Supervisors has. So, we all have the same
- 4 goals and this grant will help us get there.
- 5 As I stated, the county selected to go with the
- 6 direct equipment purchase. We have assembled a team to
- 7 evaluate and determine equipment and locations. We found
- 8 out six locations were installing variable frequency drives
- 9 for pumps and air handling units, 17 locations were
- 10 replacing 70 HVAC units, and the sizes vary between 2 tons
- 11 and 10 tons. These are some of the buildings, older
- 12 buildings, this is a small branch of the Agriculture
- 13 Department in Lodi. We are replacing old units in there,
- 14 and the Sheriff Administration Building, Juvenile Hall, and
- 15 this is a typical unit that we have on these buildings, and
- 16 these students are between 15 and 20 years old, and they
- 17 have a Seer rating of about 8 or 9, which are very
- 18 inefficient. This will be installing 13 variable frequency
- 19 drives, mostly at the jail and the Sheriff Administration
- 20 Building. And these are the locations we are installing 70
- 21 HVAC units that vary in size between two tons and 10 tons,
- 22 at several locations throughout the county, at Public Works,
- 23 road maintenance, community centers, at the Veterans
- 24 Offices, at the museum, library, and juvenile probation, and
- 25 sheriff kitchen.

1	Again,	when	Ι	first	talked	about	your	staff':	S

- 2 support, and I want to thank they again, without them and
- 3 their guidance and assistance, we would not get this, be
- 4 here. Again, thank you. The award amount is \$836,781 that
- 5 was awarded by your Commission thank you, Commissioners -
- 6 in April. What this award will do is it will sustain
- 7 manufacturing jobs in the U.S. The contracted portion, we
- 8 will be doing most of the work ourselves, but some of it,
- 9 the large variable frequency drives, we will be contracting
- 10 that work, and that will sustain our support for local
- 11 business and also for the private sector. The award will
- 12 help retain jobs within facilities management, as I
- 13 mentioned earlier. I am utilizing experienced staff of over
- 14 75 years of experience. We expect to keep as much work
- 15 internally as possible. The anticipated energy savings -- I
- 16 do have a mistake on this slide, and also in the published
- 17 documents, I would like to correct this -- the estimated
- 18 energy savings will be half a million kilowatt hours. The
- 19 avoided CO<sub>2</sub> are actually 750,000 pounds and it is not 4.5
- 20 million, so it is 750,000 pounds annually. After
- 21 installation of the new equipment, the County estimates
- 22 energy cost savings of about 20 percent.
- 23 The project timeline, we started back in November of
- 24 the potential award. In December, we meet with the staff,
- 25 we attended the workshop here, that was very helpful, again,

- 1 with Deborah and Adel, and it helped us get the process
- 2 going. We did assessment of equipment needs and, by
- 3 January, we finalized our application and the equipment
- 4 needs. The approval process, we received approval from you
- 5 in April, the equipment order, we started it already, we are
- 6 ready to put the final order on it very soon after our
- 7 meeting with the CEC staff, hopefully in a couple of weeks,
- 8 to finalize the order and make sure they approve everything.
- 9 And we expect to get the equipment in about six weeks,
- 10 hopefully by mid-September. We begin installation by the
- 11 end of September of this year and we will finish in February
- 12 2012. We will submit a draft report in April or May of
- 13 2012, and a final report to you that will have all the
- 14 pictures and discussions about energy savings, etc. at that
- 15 time, in June of 2012.
- 16 What the expected outcome here, after the
- 17 installation of new equipment, the County estimates energy
- 18 cost savings of about 20 percent, and what is really the
- 19 hidden savings here is that, right now, all of this
- 20 equipment, we spent a lot of time maintaining them. And we
- 21 estimated at least \$25,000, I think it is really more to
- 22 maintain all this old equipment, so we do not have to do
- 23 this anymore for at least the first few years, we estimate
- 24 \$25,000 per year for the first few years of savings. The
- 25 estimated energy savings will be a half million kilowatt

- 1 hours and avoided  $CO_2$  is 750,000 pounds annually.
- 2 Some of the challenges, and I do not know if really
- 3 this can be done, would be the processing time of the
- 4 application. By the time we were notified, the workshops,
- 5 we got it done and, honestly, if it was not for your staff,
- 6 there is no way we could have done it. So, again, your
- 7 staff were just amazing, gave us the help, I do not know
- 8 because there are so many hundreds of applications here, I
- 9 do not know if it can be done, but just a thought if there
- 10 is anything, I do not know how it can be, but maybe.
- 11 The challenge we are going to have is that all these
- 12 buildings are occupied, so how do we stop the units from
- 13 working for the several days it takes to replace them, while
- 14 having people in them? So, these are some of the challenges
- 15 we will be facing as we do this project in the next 18
- 16 months. Again, as I said earlier, I have my staff, they are
- 17 13 people less this year, and I am going to take about three
- 18 to four staff members, dedicate them for this project, so
- 19 this is going to the challenge is how do we continue doing
- 20 business and maintaining the other 4 million square feet I
- 21 have, but this is a challenge and we will have to get it
- done.
- 23 Some of the regrets? Again, I say, if you have more
- 24 money, please give it to us, I would love that! Improvement
- 25 areas? Notification of availability of grant and deadline

I to s	submıt	application	was	too	short	to	meet	detailed
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- 2 application requirements. And I think Deborah talked about
- 3 some of the challenges some of the smaller cities had, not
- 4 enough time, but again, what do you do? We have to get this
- 5 done. Some people were able to do it, very few were not,
- 6 and I do not know if that can be improved or not.
- 7 Processing time for review and award of grants? If that can
- 8 be shortened a little bit, but how do you do this with
- 9 several hundred just some thoughts on this.
- The next four slides, I will be talking about how
- 11 San Joaquin County contributes to the California Energy
- 12 Commission Guiding Principles for ARRA funds, so I will ask
- 13 a few questions and I will answer them. How does this
- 14 project create and stimulate jobs in California? And it is
- 15 really very simple, it is just the majority of grants spent
- 16 on equipment purchases sustains manufacturing jobs, creates
- 17 business for distributors in California, and supports local
- 18 businesses for contracted portions of the projects. So this
- 19 is really going to help the people delivering the equipment
- 20 the crane operators at the local level and the private
- 21 sector, so overall it will be helpful, very helpful to us
- 22 and the local businesses.
- 23 How does this project achieve lasting and measurable
- 24 energy benefits? And I have talked about it earlier,
- 25 basically we are replacing 70 very old HVAC units with we

1	are	replacing	them.	I	think	the	existing	ones	have	а	Seer

- 2 of 8 or 9, and we are going to about a minimum of 13, so the
- 3 energy efficiency between the old and the new is between 30
- 4 to 40 percent more efficient. We are installing 13 variable
- 5 frequency drives on pumps and air handlers. This will
- 6 achieve significant and measurable energy benefits for the
- 7 county. And I am pretty sure, in the final report, all of
- 8 this information will be provided after we finish the
- 9 installations. We have specific equipment installations,
- 10 what the old used to be, what the new are, all of this will
- 11 be in the final report with pictures and calculations, and
- 12 giving these estimates to you.
- 13 How will this project expend money efficiently, with
- 14 accountability, and minimal administration burden? By
- 15 keeping most of the work in-house, I believe we will have
- 16 more control and better accountability, and we will outline
- 17 all of this in the final report to you. How will this
- 18 project contribute to meeting California's energy and
- 19 environmental policy goals? Through the replacement and
- 20 installation of the large number of HVAC units and variable
- 21 drives, this project will extensively reduce the emissions
- 22 of  $CO_2$  and provide significant savings in kilowatt hours.
- 23 What next? I am hoping in the next couple of weeks
- 24 we will meet with the Commission Project Manager and Grants
- 25 Officer, hopefully before the end of July. We will order

	1	equipment	because	I	need	their	approval	before	I	order	th
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- 2 equipment, so I am hoping this will happen very quickly, we
- 3 would order the equipment in July, we would begin
- 4 installation in September, complete installation in
- 5 February, draft the final report in April 2012, submit final
- 6 report in June 2012. And time flies, believe me, we will
- 7 get there very quickly.
- 8 Any questions?
- 9 CHAIRMAN DOUGLAS: A few. Mr. Karam, thank you so
- 10 much for being here, and I remember that you also, I
- 11 believe, visited us at a Business Meeting some time ago and
- 12 we really appreciated hearing from you there. And obviously
- 13 we wanted to hear more and ask you back, so thank you.
- MR. KARAM: Thank you.
- 15 CHAIRMAN DOUGLAS: I do have a few questions. I
- 16 think one question I had is that one of our goals is to
- 17 really get a handle on actual jobs created and not rely
- 18 solely on the Department of Energy formula, but to get a
- 19 sense of what I expect will be varying experiences in the
- 20 field in terms of jobs per dollar for these projects. And
- 21 so I heard you say that you avoided five lay-offs in a two-
- 22 year period?
- 23 MR. KARAM: It is actually about three, but I have
- 24 also some people that are working like administration, half
- 25 the time, or a quarter of the time, and another analyst

- 1 maybe a quarter of the time, so three to four people,
- 2 approximately.
- 3 CHAIRMAN DOUGLAS: I see, so three to four, that
- 4 makes sense. And in addition, you will be doing while you
- 5 will be doing most of the work in-house, can you give a
- 6 sense of the magnitude of the work that you might be
- 7 contracting out?
- 8 MR. KARAM: We have the variable frequency drive, a
- 9 couple of them are very large, I think they are over 400
- 10 horsepower, and these two locations will for sure be
- 11 contracted out because of the large amount of work that will
- 12 be needed at that location.
- 13 CHAIRMAN DOUGLAS: And in terms of potential
- 14 percentage of the grant, or percentage of the work, do you
- 15 have any sense of that?
- MR. KARAM: I really do not at this point, but I
- 17 will have it in the final report. If you invite me back, I
- 18 will have a detailed description of everything to you.
- 19 CHAIRMAN DOUGLAS: Great. In your detailed
- 20 description of everything, are you, I hope, going to have a
- 21 detailed description of avoided maintenance costs and other
- 22 benefits like that of these projects?
- MR. KARAM: I will.
- 24 CHAIRMAN DOUGLAS: Great. When you talked about
- 25 struggling to meet the deadline, I do not actually recall,

	1	how	much	time	did	we	give	you	to	prepare	the	application
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- 2 MR. KARAM: I think, because the guidelines were not
- 3 completed, I believe until was it the end of November, do
- 4 you remember? October. So, we received them, but by the
- 5 time we started them, it was really confusing at first. We
- 6 came to a workshop here was it the end of November, or
- 7 early December, I think, in early December, and the workshop
- 8 was really very very well done, and then after the workshop,
- 9 Deborah and Adel spent about two hours with us going through
- 10 our application in detail, that helped us made more sense
- 11 for us. And what happened is, we selected the direct
- 12 purchase of equipment because you do not have to do all
- 13 these other studies and analyses. And, at first, we were
- 14 told it was really simple, you just select direct purchase,
- 15 we completed the application within a couple of weeks after
- 16 this workshop and meeting, but then some more guidelines
- 17 kept coming from the Federal Government sorry to say this,
- 18 but that is what happened. So we were originally told that
- 19 our application was going before the Commission in January,
- 20 so I thought, great, this is fantastic, we are ready to go,
- 21 and then it became February, March, and April, so we get
- 22 getting, "Wow, is this really going to happen?" So that is
- 23 really the only thing that happened there, but I understand
- 24 the Federal Government the bigger the Government is, I am
- 25 sorry to say this, the more things they want and request

- 1 more things. So, for direct purchase, some of the things
- 2 they were asking for, it did not make sense. I mean, God,
- 3 people, think out of the box a little bit, you are taking an
- 4 old unit, putting a new one in there, why do you have to do
- 5 all these other investigation about the historical thumping
- 6 we had to do? And that stopped the application process.
- 7 Wow, I am just taking an air conditioning unit, taking an
- 8 old one and putting why do I have to do all this other
- 9 stuff?
- 10 CHAIRMAN DOUGLAS: Was it a historic air-
- 11 conditioning unit?
- 12 MR. KARAM: It is, actually. Yeah, we should
- 13 actually put it in a museum. So, you know, little things
- 14 like this happen and sometimes we say, "oh, wow, that is the
- 15 way Government is," but I am so sorry, I wish we could do
- 16 things better, more efficiently, and say, "You know, this is
- 17 ridiculous, let's just say no, let's move on." Anyway....
- 18 CHAIRMAN DOUGLAS: No, I understand. On a similar
- 19 vein, how much how did you find I sense from some of
- 20 your comments that at least some of the requirements you are
- 21 talking about are related to reporting requirements,
- 22 although not all of them, necessarily, but what is your
- 23 sense of the reporting requirements and the level of detail?
- 24 Are there things that you will be tracking that are not in
- 25 them? For example, avoided maintenance costs? I do not

- 1 know if that is in them or not. Are there requirements in
- 2 the report that are difficult to meet or that seem
- 3 excessive?
- 4 MR. KARAM: I think most of them are reasonable.
- 5 Honestly, I have not looked at it again, but we will when we
- 6 sit down in a couple of weeks with the staff, before we
- 7 begin the project, and find out exactly. Because it needs
- 8 to be clear to both me and my staff, I will bring them with
- 9 me to make sure we cover everything from the beginning, we
- 10 do not want to miss anything.
- 11 CHAIRMAN DOUGLAS: That is great -
- MR. KARAM: But, at this time, I say I think they
- 13 are reasonable. But, again, once I look at the details, if
- 14 I find something unreasonable, when I come back here, I will
- 15 tell you.
- 16 CHAIRMAN DOUGLAS: We hear you. We may or may not
- 17 be able to help, depending on where the requirement came
- 18 from, but we would like to know in any case.
- MR. KARAM: Yes.
- 20 CHAIRMAN DOUGLAS: I do not think I have any more
- 21 questions. Commissioner Eggert?
- 22 COMMISSIONER EGGERT: Just, I think, a short one.
- 23 Again, very much appreciate you coming in today. The energy
- 24 cost savings estimate, the 20 percent per year is a pretty
- 25 impressive figure. Is that across all operations, just for

- 1 those facilities, or just for the equipment?
- MR. KARAM: This is an average per building. If we
- 3 look at the units themselves, each unit will have a savings
- 4 between 30 -- are more efficient -- between 30 percent to 40
- 5 percent. So the average is the impact on the overall
- 6 building operations. Some buildings are occupied 24 hours a
- 7 day, so these units are running 24 hours, seven days a week.
- 8 COMMISSIONER EGGERT: That is an impressive figure.
- 9 Do you have any sense of what you are going to do with that
- 10 money you save on an annual basis? Reinvest it in some
- 11 areas?
- MR. KARAM: I think, I am hoping to be able to
- 13 retain staff when next year's budget comes, and if we spend
- 14 less on energy, that is savings to the overall budget I
- 15 have, and I will be able to retain staff.
- 16 COMMISSIONER EGGERT: So that would be part of the
- 17 jobs calculation.
- MR. KARAM: Yes.
- 19 COMMISSIONER EGGERT: Okay, thank you.
- 20 CHAIRMAN DOUGLAS: Actually, I have one more
- 21 question. I am glad you asked those questions, that was
- 22 very helpful. How did you go about developing your project?
- 23 You said you went to the direct buy and part of the appeal
- 24 of that was that, at least initially, it seemed quite
- 25 simple. But did you draw on an existing facilities plan?

1	Did y	you	-	to	what	degree	did	the	requirements	of	the	program
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- 2 either facilitate exactly what you wanted to do, or lead you
- 3 in potentially a different direction than you might have
- 4 done with money that was purely discretionary and did not
- 5 have some of the ARRA timelines and requirements?
- 6 MR. KARAM: We have we do every year a
- 7 preventative maintenance program, and we have a listing of
- 8 all these equipments and the age and how much maintenance it
- 9 costs us to do this, so when I gathered my staff, I said we
- 10 need to do this quickly, we do not have a lot of time. So
- 11 we brought the list out, we actually went and visited each
- 12 one of those areas, took some pictures, and decided because
- 13 we have a lot more, so if you give me more money, I will be
- 14 able to do the rest of them I keep repeating this! So, we
- 15 basically made a priority list, which ones are the worst,
- 16 and this is what we put in before you. The larger areas,
- 17 the variable frequency drives, these are requests that come
- 18 to me from my staff every year, and I keep telling them I do
- 19 not have money to do this, but this grant really helped us
- 20 do a replacement and installed variable frequency drives.
- 21 CHAIRMAN DOUGLAS: So you would say that, while
- 22 there are many more worthy projects that could be done were
- 23 there more money, you are least relatively satisfied that
- 24 the list that you generated under time pressure was a pretty
- 25 good list?

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- 2 really very grateful to be getting rid of all this old
- 3 equipment and putting more energy efficient ones. Thank
- 4 you.
- 5 CHAIRMAN DOUGLAS: Thank you very much. Thanks for
- 6 being here.
- 7 COMMISSIONER EGGERT: Thank you.
- 8 MS. KOROSEC: We do have one question from an online
- 9 person and I am going to read it because of the phone
- 10 issues, "What kind of maintenance costs are covered in new
- 11 energy installation and guarantees applied?"
- 12 COMMISSIONER EGGERT: I note there is also a
- 13 question about recycling.
- 14 MR. KARAM: We maintenance costs covered I am
- 15 not really sure what he means by this. The installation
- 16 costs that we outlined, I outlined installation costs for
- 17 labor in the presentation and we are looking at -- the
- 18 installation cost of the overall project are about 40-45
- 19 percent.
- 20 CHAIRMAN DOUGLAS: I think what she might be getting
- 21 at is the issue of to what extent maintenance costs the
- 22 comment that you made that avoided maintenance cost was
- 23 another benefit of the project, maybe you could talk about
- 24 that.
- MR. KARAM: Yeah, we estimated the maintenance cost

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1	avoidance,	once	the	new	equipment	lS	installed,	lS	about

- 2 \$25,000 per year, and hopefully we will be able to verify it
- 3 at least from the first buildings we install, that gives us
- 4 about a year to monitor it, and we will be able to document
- 5 this. Yes.
- 6 COMMISSIONER EGGERT: And actually, I do note that
- 7 Ms. Kimberlin has a question on recycling. I know that this
- 8 is something that is important to us in our appliance
- 9 programs, to make sure that especially the HVAC units -
- 10 MR. KARAM: Yes. Right now, we are developing a
- 11 waste disposal plan that we have to submit to the CEC staff
- 12 before they approve us to go ahead and purchase the
- 13 equipment. We are developing this plan right now, and
- 14 basically we will find a recycler we are talking to a few
- 15 of them that will take the units, extract the innards from
- 16 them, and recycle the copper and any metals that can be
- 17 recycled and dispose of the rest. This is one idea that one
- 18 of the people talked to me about. I still need to listen to
- 19 a couple more, and then we develop a plan and submit it to
- 20 the CEC staff before the end of July.
- 21 COMMISSIONER EGGERT: Thank you very much.
- 22 CHAIRMAN DOUGLAS: Well, thank you. And I see that
- 23 our next speaker has asked a question on the WebEx about
- 24 whether we are going to break for lunch or go ahead.
- 25 Suzanne, Commissioner Eggert and I were thinking that we

- 1 would like to just keep going into the lunch hour --
- 2 MS. KOROSEC: All right.
- 3 CHAIRMAN DOUGLAS: -- if that is possible, and if
- 4 nobody else here is faint from hunger.
- 5 MS. KOROSEC: All right, then we will go ahead and
- 6 move forward with Mayor Kathay Lovell from South Lake Tahoe.
- 7 Mary, your line is open, go ahead.
- 8 MS. KERRY: Well, good morning. Actually, this is
- 9 Nancy Kerry. I am a South Lake Tahoe staff member and
- 10 Sustainability Liaison. Here with me is Kathay Lovell, and
- 11 I would like to introduce her to you. Mayor Lovell is in
- 12 her eighth year as our Council member for South Lake Tahoe's
- 13 community. She has been elected Mayor by her colleagues
- 14 more than once. She has been a driving force and a champion
- 15 in the community behind Sustainability concepts, energy
- 16 efficiency, and getting the community involved. Between
- 17 2007 and 2008, Ms. Lovell was, with support of our City
- 18 Council, asked to hold a workshop throughout our community
- 19 to get ideas from our community members about what they
- 20 think sustainability is. As you know, without their
- 21 assistance and taking ownership of it, it is not going to
- 22 happen. So the Council adopted the Comprehensive
- 23 Sustainability Plan in November of 2008, which she is going
- 24 to tell you a little bit more about. But that plan did not
- 25 sit on a shelf; they immediately encouraged and supported

- 2 been in place for over a year now. Mayor Lovell will speak
- 3 a little bit more on these issues and with that, I would
- 4 like to turn this over to her, who will lead our
- 5 presentation today.
- 6 MAYOR LOVELL: Well, good afternoon, everyone, and
- 7 thank you so much for this opportunity. As you know from
- 8 the slide that we have before us, that the City did provide
- 9 for the maximum amount available, and I understand this was
- 10 formula-based. I would just like to briefly comment on
- 11 that, is that we understand that it is based on population,
- 12 but just to give you some context of how we are somewhat
- 13 unique to other cities that have a fixed population base,
- 14 since last weekend, we had over 250,000 visitors here for
- 15 the 4<sup>th</sup> of July weekend, and on any given holiday weekend, or
- 16 throughout the summer, our population is an average of about
- 17 100,000 people. So, the resources that we have, that we
- 18 have to be able to provide a type of services to accommodate
- 19 that type of an influx of people, really has a big impact on
- 20 our city services, energy being one of those primary ones.
- 21 So, I just wanted to provide that information to you, the
- 22 populations for us is a huge variance from what other
- 23 communities and cities do that apply for this on a fixed
- 24 population basis. The City is very grateful for the award
- of \$131,000 for the retrofit of the pedestrian walkway

1 1:	ight,	the	LED,	and	so	it	will	be	two	replaced	fluorescent
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- 2 lights with LED in the City Motor Pool Building and City
- 3 Offices. Our Motor Pool is our shop area that does all the
- 4 repair on all our fleet vehicles, our snowplows, our fire
- 5 trucks, all of our vehicles to keep the city functioning
- 6 year-round, especially in the winter time with the high
- 7 demand for snow removal equipment and repair. So, this is a
- 8 shop that is quite large and has a lot of lighting. The
- 9 standard wall switches with the motion detectors is another
- 10 one next slide, please and staff has come up with this
- 11 great comment, and I want to give them kudos, "Change Your
- 12 Lights, Change the World," and I think that is very
- 13 appropriate because when you start to set the example, then
- 14 other people will follow, and we have tried to do that in
- 15 many instances, along with our sustainability.
- 16 Our Council adopted a Sustainability Plan back on
- 17 November 8<sup>th</sup>, and a Sustainability Commission in '09, and we
- 18 do have a Vision Statement, and when we adopted this Vision
- 19 Statement back in 2008, it was at the lawns of the
- 20 Environmental Summit, but at that time Senator Feinstein,
- 21 Senator Reid, and Senator Ensign, posted here at Tahoe, and
- 22 every year there is an Environmental Summit and we passed
- 23 out energy efficient bulbs that we received from Sierra
- 24 Pacific Power, complimentary along with the sustainable
- 25 green bags with our sponsors, in trying to educate the

- 1 public, along with Camelback water bottles, in fact, I have
- 2 one sitting in front of me here today that, you know, our
- 3 theme is Reduce, Reuse and Recycle, and we are trying to
- 4 provide all of this we have provided all of these bags
- 5 with the bulbs and not only to over 500 of the attendees
- 6 from all over the state and nation, but as well to our
- 7 Environmental Magnet School and a couple of the other
- 8 schools, and our Sustainability Commission because we want
- 9 people to be able to understand and be the leader in showing
- 10 them how to be sustainable. So, we focused on different
- 11 demonstration projects that had provided opportunity for
- 12 businesses and residents that can replicate in their own
- 13 properties and their own homes. The City has met with the
- 14 CEC staff, focused on lighting, and lighting proposed
- 15 projects do demonstrate energy efficiency to a public
- 16 community through the simple concept, as Nancy had put
- 17 earlier, "Change Your Lights, Change Your World." And,
- 18 again, being in a mountain community where we have very long
- 19 winter months, where the sun sets very early in the day, it
- 20 seems like it is about 2:00, but it is actually about 4:00,
- 21 but we have less daylight than most places in the state that
- 22 are not in mountain communities. So, again, we have the
- 23 lights on quite a bit, so we need to be as efficient as we
- 24 can. Next slide, please.
- 25 The energy savings projected by CEC is 35 tons of

	1	GHG	annually,	and	we	intend	on	finishing	this	project	b	У
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- 2 December of '09, again, because we have a long winter ahead
- 3 of us and we want to get ahead of the game and realize the
- 4 savings as soon as possible -
- 5 MS. KERRY: December 2010.
- 6 MAYOR LOVELL: Excuse me, I do not know why. I beg
- 7 your pardon, thank you.
- 8 MS. KERRY: The Skin Run Blvd. is an important
- 9 roadway in our city, it is a boulevard that is in the center
- 10 of town and it connects Heavenly Ski Resort to the Lake, and
- 11 it is a main thoroughfare where there has been a skin run
- 12 business improvement district, and the lighting is critical
- 13 in this area because it is a mixed use area, the only one
- 14 that we have here in the City, and it traveled by both
- 15 residents and visitors, there are ski shops and restaurants
- 16 and homes, and hotels, and a whole variety of different
- 17 businesses here, and the lighting is not only a safety
- 18 issue, but it is important for an energy efficient issue.
- 19 There is approximately 600,000 cars that travel up and down
- 20 Ski Run Blvd. every winter, and the business improvement
- 21 district has just recently branded their district as "On The
- 22 Run," the Ski Run Blvd., and they will be hosting for the
- 23 first time events throughout the year, particularly in the
- 24 winter months during the evening, there are 88 tall
- 25 decorative pedestrian lights, and the current usage is 170

- 1 watts, replaced with LED 56 watts, and the demonstration of
- 2 outcome is the LED cost benefit and pedestrian impact on the
- 3 lighting opinions, it is a huge safety issue for us. Next
- 4 slide, a few pictures of the area for you.
- 5 MAYOR LOVELL: So, you can see the LED retrofit and
- 6 this is a critical roadway, as we mentioned.
- 7 MS. KERRY: Next slide.
- 8 MAYOR LOVELL: And here is what the retrofit looks
- 9 like.
- 10 MS. KERRY: And you see the pedestrian lights on
- 11 your right there, circled in red.
- 12 MAYOR LOVELL: And we have a standard with our -
- 13 since we are the most regulated environmental community in
- 14 the nation, and so we have standard lighting that we have to
- 15 uphold, and the type of lighting, and how much lighting, so
- 16 the new LED custom retrofit is a great example of meeting
- 17 that standard and exceeding it.
- MS. KERRY: Next slide, please.
- 19 MAYOR LOVELL: So, you can see the custom LEDs that
- 20 Mayor Lovell was just speaking about, so one on the right is
- 21 a sample, the one on the left is what it currently looks
- 22 like.
- MS. KERRY: Next slide.
- 24 MAYOR LOVELL: The City has high wattage fluorescent
- 25 lights in most of the buildings similar to most businesses,

- 1 but what is a little bit unique for us is our city
- 2 essentially was built up during the '60s for the Winter
- 3 Olympics over at Squaw Valley. All the motels and
- 4 businesses are and city buildings, for that matter are
- 5 over 50 years old, or reaching that life span, and so this
- 6 is a great opportunity to start to help our community and,
- 7 in our own city, we have seven different buildings because
- 8 we never were able to build the City Hall. Our city offices
- 9 are here at the Airport and, of course, we have three fire
- 10 stations, the Motor Pool Buildings that we talked about,
- 11 that is our auto shop area, and we have Administrative
- 12 Offices in another location, Building and Planning, so the
- 13 lighting is critical because we are so spread out. So, we
- 14 are trying to reduce our carbon footprints as much as
- 15 possible, but lighting is one of those areas of being more
- 16 efficient. So we replaced the fluorescent lighting with
- 17 those LED lights in the Motor Pool Building, and right now
- 18 the workers are under these extremely bright lights all day
- 19 long, and to replace the standard, all switches with motion
- 20 detector switches, which are the Wattstoppers.
- The demonstration outcome? The LED cost benefit.
- 22 Wattstopper cost benefit, employee impact. I also want to
- 23 point out that the Motor Pool Building is not a pool,
- 24 because we had some questions about that it is not a pool,
- 25 as you can see on the next slide, that is a picture of that

- 1 building and I talked about those lights there.
- 2 So, you can see from those pictures how valuable
- 3 this grant will be, to be able to replace these lights in
- 4 this area that is used, and these guys start at 7:00 in the
- 5 morning and often work until the late hours of the night,
- 6 depending on if we have breakdowns with the snow equipment
- 7 in the winter time.
- 8 MS. KERRY: Next slide, please.
- 9 MAYOR LOVELL: The overall projection outcomes,
- 10 which is the demonstration project will evaluate the
- 11 financial cost benefits, including the maintenance, the
- 12 installing of the LED to provide community evidence for our
- own LED projects, the demonstration will evaluate energy
- 14 cost savings compared to actual providing evidence to the
- 15 community. The CEC estimate of 30 tons, 35 tons GHG
- 16 reduction, and the 6,000 direct energy savings, which is the
- 17 maintenance savings could be as much as another \$5,000 a
- 18 year, expect increased percentage in property owners
- 19 installing LED, again, it is education and providing them -
- 20 showing them the leadership and that we are going to
- 21 demonstrate how valuable the savings can be. The jobs
- 22 created from the \$131,000 includes supporting the LED
- 23 manufacturing retrofit companies. But it is even more than
- 24 that, it will help keep employee jobs because we are going
- 25 to be doing all the installation ourselves with our Parks

1	and	Recs	and	Public	Works	Departments.	So,	it	is	not	just
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- 2 about changing the lights.
- 3 MS. KERRY: Next slide, please. So, I will just
- 4 mention that you had asked what the challenges were
- 5 regarding this grant process, the only one I really would
- 6 mention is that it took quite a while to get an actual
- 7 formal notification of the award, and that delayed we have
- 8 to amend our budget, so, you know, two different governments
- 9 trying to work together, that is all. And next slide,
- 10 please.
- 11 MAYOR LOVELL: So the next slide talks about our
- 12 City Sustainability Project, again, and the South Lake Tahoe
- 13 City focus has been to really take the lead here and the
- 14 establishment of not only a Sustainability Plan, Commission,
- 15 the efforts to adopt these green building standards and
- 16 policy, that the City's energy challenges stem from being
- 17 spread out among, as I mentioned before, many buildings
- 18 throughout the community. Currently on the list of energy
- 19 audits from CEC, which is really important to us to be able
- 20 to get funding to do this energy audit, and recently the
- 21 Parks and Rec Department utilized the California Energy
- 22 Commission's State Energy Program loans to construct an
- 23 innovative energy project that leverages energy from one
- 24 building to warm and cool the other building. This is the
- 25 city's future, and energy efficiency will depend on

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1	consolidating	operations	to	locations	lmproving	these	very

- 2 old buildings. One of the Fire Departments, well, when I
- 3 was a little girl, it was an old building and you cannot see
- 4 me there, but that was a long time ago.
- 5 So we appreciate everything that you have done to
- 6 assist us and we look forward to working with you in the
- 7 future, and hopefully that we will be able to provide to you
- 8 how much we want to be able to make these changes. I would
- 9 like to just quickly read the Vision Statement that the City
- 10 has, and it says, "By 2028, South Lake Tahoe is an
- 11 efficient, clear, complete connected biodiversity, healthy,
- 12 aware local and green community. Looking back from the year
- 13 2028, South Lake Tahoe will become a national story,
- 14 successful because communities and public agencies made a
- 15 concerted effort to invite investment that improved the
- 16 region's competitive position and image, while moving the
- 17 city towards a more sustainable future. Gateways and places
- 18 have been enhanced, and Highway 50 has been transformed into
- 19 an interconnected series of pedestrian oriented, mixed use
- 20 interest, served by efficiency," and lighting is part of
- 21 that efficiency, "...and convenient transit and connected to
- 22 adjacent neighborhoods. South Lake Tahoe has become a
- 23 nationally recognized and bicycle friendly community." But
- 24 we have to have good lighting for that. "By 2028, the City
- 25 has made significant advances towards sustainability that

- 1 meets by 2028. The City has made significant advances
- 2 toward sustainability that meets the needs of present
- 3 communities without compromising the needs of future
- 4 generations." And the City Council has just recently added
- 5 that we are going to select two students from our
- 6 communities to also sit on our Sustainability Commission,
- 7 because if we start with our youth, we show them how and
- 8 what we are doing to be more energy efficient, it will be
- 9 common for them. Thank you very much.
- 10 CHAIRMAN DOUGLAS: Well, thank you very much, Mayor
- 11 Lovell. And I really appreciate your being on the phone to
- 12 tell us about your great questions, and I have a few
- 13 questions for you.
- 14 MAYOR LOVELL: Do you mind if I allow staff to
- 15 answer those? I have another meeting up here.
- 16 CHAIRMAN DOUGLAS: Absolutely.
- MAYOR LOVELL: Okay. Thank you so very much and
- 18 staff has done a fabulous job and I want to thank them so
- 19 much.
- 20 CHAIRMAN DOUGLAS: Absolutely. Thank you.
- 21 MS. KERRY: Thank you, Mayor. We are here to answer
- 22 your questions.
- 23 CHAIRMAN DOUGLAS: Yes, so one question is, it
- 24 sounded to me, but I wanted to verify that, in your case,
- 25 you identified the project or the lighting focus of your

- 1 project out of a sustainability initiative, including
- 2 community forums, and so on, that really predated the ARRA
- 3 funding being available, and was part of your own city
- 4 planning processes?
- 5 MS. KERRY: That is partly correct. That community
- 6 forum and process, and the plan that resulted from that,
- 7 produced a pretty comprehensive overall look at
- 8 sustainability, which part of that obviously was energy
- 9 efficiency. We had that on our radar screen, but it was
- 10 actually the Energy Commission staff that came out here, and
- 11 met with us to put together a really great meeting with
- 12 people from all different parts of the community, and they
- 13 came and we asked them, "Well, what do you think is actually
- 14 the key to getting energy efficient, if you could just pick
- 15 one thing?" And they said lighting. And they brought a
- 16 great presentation and they showed us that basically that is
- 17 where we came up with the phrase "Change Your Lights, Change
- 18 the World." It is amazing to us that, if all you have to do
- 19 is change your lights to get a reduction in GHG, maybe we
- 20 could inspire the rest of our community to do it, but the
- 21 cost of LED was prohibitive, then the grant comes out and we
- 22 see that as an opportunity to connect the dots, taking grant
- 23 funds, implementing a project the CEC thinks is a great
- 24 idea, and they have already got the evidence to support it.
- 25 We will show the community how they can do it in their

1	businesses.	and	t.hen	their	own	liahtina	opportunity,	and	we
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- 2 just kind of connected the dots that way.
- 3 CHAIRMAN DOUGLAS: Thank you, that is great. And I
- 4 also asked the previous presenter, what detail can you give
- 5 us about actual jobs created, so stepping back from the DOE
- 6 formula for the moment, you mentioned that you are trying to
- 7 do as much as possible to work in-house, can you give us a
- 8 sense of how many FTE, Full Time Equivalent, or how many
- 9 people that is over the next year or two?
- MS. KERRY: I can. You know, our grant was only
- 11 \$131,300, so we are not going to create a job with that
- 12 because we spent all the money on the job, so we are taking
- 13 in-house staff and helping to offset their salaries with
- 14 just a little over \$29,000 is directed towards
- 15 administration, the salaries to install the equipment,
- 16 leaving \$100,000 for all the lights and equipment. So, we
- 17 are saving the current jobs, obviously. State cities are
- 18 suffering financially, so that is going to offset our
- 19 General Fund by \$30,000, just about, but we are also driving
- 20 those funds that \$100,000, then, is going to help small
- 21 businesses that are producing these lights. So we see that
- 22 job creation is on both sides saving current jobs, but
- 23 stimulating the small business.
- 24 CHAIRMAN DOUGLAS: And the small businesses that are
- 25 manufacturing these lights, can you tell us, or do you have

- 1 specificity on who they are, and where they are at this
- 2 point?
- 3 MS. KERRY: We do, and that is we have been seeing a
- 4 lot of interest. Once we got the grant funds and put out
- 5 our press release, in fact, even today someone pulled our
- 6 presentation off your website and contacted us, so we have
- 7 not contracted with anyone yet, we just signed a standard
- 8 agreement about a week and a half ago, and we will go out
- 9 for bids, but we are asking, you know, obviously, all the
- 10 small businesses we are putting the word out we want to
- 11 contract with them, and I am sure it would help them quite a
- 12 bit.
- 13 CHAIRMAN DOUGLAS: I am sure it would. Thank you.
- 14 That is all of my questions. Are there other questions?
- MS. KOROSEC: Any questions from anyone in the room?
- 16 We have nothing on WebEx, so I think at this point, I would
- 17 suggest we break for lunch and reconvene at 1:15 if that is
- 18 all right.
- 19 CHAIRMAN DOUGLAS: That is great.
- MS. KERRY: Thank you.
- MS. KOROSEC: Thank you.
- 22 (Adjourned at 12:16 p.m.)
- 23 (Back on the record at 1:23 p.m.)
- 24 MS. KOROSEC: Let's go ahead and get started and
- 25 then, I believe, Chairman Douglas will join us when she is

1	able	to	do	so.	So,	welcome	back	after	lunch.	Our	first

- 2 speaker here after lunch is going to be Mr. John Sherbert
- 3 from the Town of Moraga. Mr. Sherbert.
- 4 MR. SHERBERT: Thank you for the opportunity to
- 5 share our experience with the EECBG grant process. I am
- 6 first going to have to ask you to kind of adjust your scope
- 7 and scale of things downward, after looking at some of the
- 8 prior presentation material. We are not in that same
- 9 ballpark. We are a small community. We have got a total of
- 10 16,000 some odd residents, about 50 square miles, so we are
- 11 talking pretty small, and basically a commuter or a bedroom
- 12 community, if you would, to the San Francisco area. We have
- 13 got seven town buildings, so not a lot of floor space to
- 14 deal with, we also have 38 total employees, this is
- 15 inclusive of the Police, Public Works staff, everybody. So
- 16 we do not work with a lot of resources. Our typical annual
- 17 total operations budget is around \$6.5 million, so, when we
- 18 see an opportunity to use grant funds to resolve some of our
- 19 outstanding problems, we wanted to jump at it.
- In approaching the potential or the possibilities,
- 21 we had already been looking at some of the buildings that
- 22 have a lot of high energy use and trying to figure out how
- 23 we might reduce that. In our particular case, the three
- 24 largest buildings in town would be the Library, the Town
- 25 Office and Police Department, and finally, the Parks and

1	Recreation	Building.	We	looked	at	how	we	might	focus	in	on

- 2 what was causing our high energy use and, in large part,
- 3 that was, as is typical, and as you have heard before, HVAC
- 4 systems that were not particularly efficient, or somewhat
- 5 old, our exterior lighting, and our building insulation
- 6 which was suspect since the buildings were built 30 to 40 to
- 7 50 years ago. Standards were considerably different at that
- 8 time, so the insulation levels in the buildings are modest.
- 9 Our interior lighting had been upgraded a couple years ago
- 10 based on another project sponsored by PG&E and ABAG.
- 11 So, when we started looking at the opportunity
- 12 provided to us with the grant funding, we started rank
- 13 ordering the number of projects that we had to work with.
- 14 We kind of assumed that we would have many more projects
- 15 than we had funding, and that was typically the case, so we
- 16 had to focus in on the heavy hitters, and in our case we
- 17 selected a list of projects, as you see in front of you,
- 18 HVAC upgrades for two buildings, to the tune of a little
- 19 over \$100,000, lighting upgrades in our parking lots, and
- 20 interior control system for lighting to the tune of
- 21 approximately \$60,000, upgrading our building insulation in
- 22 the Library and Parks and Recreation Building, and finally,
- 23 our big splash, putting pv panels on top of our Town Hall
- 24 and Police Department to help offset some of our electrical
- 25 usage. The total came to about \$390,000 and, to fund all of

1	that,	we	first	looked	at	the	EECBG	Grant	of	\$93	,400	, this
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- 2 was the maximum allocated to us, then we went for California
- 3 Energy Commission's 3 percent loan, and by the time we added
- 4 the utility rebates and the small portion the town could
- 5 actually allocate, we managed to reach the total so that we
- 6 could actually fund these projects. There were other
- 7 projects we looked at that either did not have the payback
- $8\,$  or did not have adequate funding by the time we ran out of
- 9 money.
- Now, after we get to implement all of these
- 11 projects, we are looking at the potential savings for us, a
- 12 lot of money, to the tune of about \$21,000 per year. Put
- 13 this in the context that, for major buildings, our
- 14 expenditures are around just shy of \$70,000, so this is a
- 15 major savings for the town. And in the context of that \$6
- 16 million budget, this is a real benefit. That breaks down in
- 17 terms of about a 17 percent reduction in electrical usage,
- 18 about a 30 percent reduction in natural gas -- I will add a
- 19 few points to that in just a second -- and following with
- 20 the request, we reduced our greenhouse gas by about 88
- 21 metric tons. So, for our small footprint, that was a
- 22 significant savings. I talk about reducing the natural gas
- 23 by what appears to be a disproportionate share, one of our
- 24 buildings actually, our Park and Rec Department Building -
- 25 two-story, built sometime in the '20s, modified many many

1	times	over,	heated	by	forced	air	qas	heating,	our	furnace	is

- 2 downstairs, to say that they are inefficient and functioning
- 3 poorly is being generous. This past winter, we were able to
- 4 reach 50 degrees downstairs with electric heaters plugged
- 5 in. So this is a substantial benefit for us, and one the
- 6 town could not have afforded without benefit of this
- 7 program. So, when I say we really appreciate the
- 8 opportunity, we really appreciate the opportunity! So, we
- 9 are improving the building's efficiency at the same time of
- 10 making that particular building much more useful. It
- 11 represents our shared space for community uses, as well as
- 12 our park and recreation office. In our Library, for
- 13 example, it was built in the '70s, and for whatever reason,
- 14 they did not insulate the roof, so essentially we were
- 15 heating and cooling the attic in the main building, so I am
- 16 anticipating that we are going to save potentially even more
- 17 than the numbers are reflecting.
- 18 In terms of adding jobs, it is very difficult at our
- 19 scale to really reflect how many jobs we added because we
- 20 are really not that large, so I represented it as 130 days,
- 21 that is eight-hour days, of work that we are adding to the
- 22 local economy. Again, hard to put into terms of a full-time
- worker.
- 24 Some of the challenges that we ran into with this
- 25 program, however, as probably other speakers have mentioned,

1	the	changing	requirements,	as	the	application	documentation
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- 2 was being finalized, we had already started the process of
- 3 trying to assemble the material and put the application
- 4 together, so we had to back out and do a lot of extra work,
- 5 and then, when we got the request for including prevailing
- 6 wages as a part of the application, it pretty much stopped
- 7 us in our tracks. At this point, we had not officially bid
- 8 any of these jobs, they were strictly on the design stage of
- 9 the process. So, to add this level of detail required of us
- 10 to go work with small contractors in the local area, request
- 11 that they informally bid these jobs so that we could
- 12 assemble the titles, the prevailing wage rates, and actually
- 13 feed this information into the process, this is all done
- 14 without compensation to these contractors, we are
- 15 essentially looking at small mom and pop outfits that could
- 16 ill afford to take that extra time not that we could, we
- 17 kind of had to put everything on hold during the months of
- 18 December and January in the Engineering Department to be
- 19 able to respond to this.
- 20 The other issue is trying to determine what the
- 21 projected savings might be. We had elected to go the route
- 22 of energy efficiency project rather than the ordering off
- 23 the shelf. Part of this was because of the need to insulate
- 24 our buildings, upgrading the HVAC would not really be very
- 25 effective if we had not insulated, so we wanted to do a

	1	total	package,	but	that	required	considerably	y more	or	а
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- 2 higher level of analysis, and many of the tools just are not
- 3 available to small agencies like us. We accessed the Web
- 4 and did our best in terms of finding Web resources, and we
- 5 had some mixed success. And at this stage, I have to throw
- 6 a plug in to the Energy Commission staff because they were
- 7 really helpful, did not always have the answers for us when
- 8 we needed them, but they really put out the effort.
- 9 The third item I wanted to point out was the issue
- 10 of contracting. For the Town of Moraga, since we are so
- 11 small, and our projects are typically going to be small,
- 12 contracting is going to be an issue for us. The Federal
- 13 requirements, as currently published, typically include
- 14 paragraph after paragraph after paragraph, and sometimes
- 15 page of required clauses in order to meet the prevailing
- 16 wages, the equal opportunity, and so on. While I absolutely
- 17 agree with the need to ensure that those programs are met,
- 18 adding this level of detail to our contracts represents a
- 19 significant burden to the very target contractors that we
- 20 are looking at. Again, typically we are trying to keep this
- 21 in the local area, and most of these contractors are small.
- 22 They might have half a dozen workers and maybe two or three
- 23 office staff. In addition to the burden it places on the
- 24 town staff to be able to coordinate all of this, each one of
- 25 those contractors has to also put additional staff,

1	administrative	burden,	on	their	pro	ject	to	try	to	resi	pond	£
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- 2 back to us and maintain all of the reporting requirements
- 3 and so on. What this has resulted in is our loss of a
- 4 number of the universe of contractors, they just flat out
- 5 will not bid because it is just too small for the amount of
- 6 profit they are liable to get to be able to support the
- 7 level of overhead. That poses a little bit of a problem.
- 8 One of the other issues that I will throw out there
- 9 is competitive requirements. We clearly stated that we have
- 10 to go out for bid and go through this whole process. No
- 11 argument with that, whatsoever. Ah, speaking a little
- 12 softly, am I? Okay, one of the other issues we have is for
- 13 the town. We contract our streetlight maintenance through
- 14 PG&E and they do the installation, they do the maintenance,
- 15 and everything else. At this stage, I am not sure we even
- 16 have the opportunity to competitively bid that because the
- 17 PG&E rates for those streetlights includes that maintenance.
- 18 So, for us to go out on a competitive basis, I suspect,
- 19 would run afoul of those rates. So, we are going to have to
- 20 work through that somehow.
- 21 Some of the just general observations at this point,
- 22 the grant, the loan, the combination of rebates, and so on,
- 23 is going to give us the opportunity to save some significant
- 24 money on energy. I mentioned before that the Energy
- 25 Commission staff has been very helpful in helping us get

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1	irom	tne	application	stage	to	tne	award	stage.	But	now	ls

- 2 where the real burden comes in. For smaller agencies using
- 3 a federally funded grant is almost too much. I represent -
- 4 well, there is the Town Engineer, there is me as the
- 5 supporting engineer, and a staff person, or Staff Clerk.
- 6 That is our Engineering Department. We have to maintain the
- 7 town and, at the same time, we are trying to take advantage
- 8 of this opportunity. The paperwork is basically going to be
- 9 done on my time. And, you know, I am not sacrificing for
- 10 that, I really believe in this, but I want to be very clear
- 11 that this is a burden and for it to be a real help to all of
- 12 the agencies, being very much aware of the administrative
- 13 burden. The other thing that we concluded is, the whole
- 14 process seems to be very heavily oriented towards the larger
- 15 contracts, the larger agencies, where even the contract
- 16 process speaks to contracts in excess of \$100,000. We will
- 17 have one contract that will be over \$100,000. Most of our
- 18 contracts will be between \$2,000 and \$5,000. By the time I
- 19 wrap in all of these processes, I am just hoping I get some
- 20 bids.
- 21 Every time the process changed from either the
- 22 federal level or the state level, it required a lot of churn
- 23 in the application in providing additional detail, and so
- 24 on. That represents an unrecoverable administrative burden
- 25 to the agencies. While in many cases that may not be

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- 2 ask that, going forward, that as a whole, the whole process,
- 3 we should look at minimizing the changes once this process
- 4 starts, not only in terms of the levels of detail, but also
- 5 in terms of the scope. We need to differentiate between
- 6 what is nice to be able to report and what is really
- 7 required. Nice to have stuff -- maybe what we need to do is
- 8 establish thresholds. If you are a larger agency, report
- 9 this stuff; if you are a smaller agency, it may not be
- 10 significant in the greater scheme of things, so let's not
- 11 have to go through the process and the push-ups of
- 12 accumulating. Seriously, when we add all of the
- 13 administrative burden, it does start to make me wonder if
- 14 the reporting requirements have not exceeded the value of
- 15 the grant. So, with that, are there any questions?
- 16 COMMISSIONER EGGERT: That you very much, Mr.
- 17 Sherbert. And I appreciate your candor on all the
- 18 challenges and observations. I think, you know, trying to
- 19 find that balance between process, oversight, quality
- 20 assurance, and you know, ensuring that the money is spent
- 21 properly and such, is definitely one that I think is sort of
- 22 a constant challenge, and particularly for the smaller
- 23 projects and jurisdictions like yourselves. One question I
- 24 had, I noted that you were able to combine the Block Grant
- 25 with the 3 percent I assume that is an ECAA loan and

1	could	you	say	anything	about	how	difficult	or	easy	or
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- 2 bringing those two sources of funding together to actually
- 3 execute this program and this project?
- 4 MR. SHERBERT: That was an issue for us. Given the
- 5 two requirements are somewhat different requirements for the
- 6 loan, the loan had to be paid back through savings, so that
- 7 was its predominant screening device. The grant was trying
- 8 to save through the BTU, so I went through many iterations
- 9 of spreading the payment, or the funding, for each
- 10 individual project across the rebates, Town funds, loan, and
- 11 Block Grant, so that I could, in fact, meet all those
- 12 thresholds and be able to secure the funding for the total
- 13 project. I think we ended up with six iterations to match,
- 14 or to make it match, which was difficult enough on the front
- 15 side in the implementation now, I am going to have to follow
- 16 that for all of my reporting, so I am going to be breaking
- 17 down each contract by its proportionate share of loan
- 18 amounts and grant amounts, so that I am following the
- 19 reporting to match my obligation.
- 20 COMMISSIONER EGGERT: So I imagine you have a pretty
- 21 sophisticated Excel spreadsheet somewhere that you are -
- MR. SHERBERT: It is about 12 layers thick.
- 23 COMMISSIONER EGGERT: So, you had also talked a
- 24 little bit about some of the tools, you know, trying to
- 25 search for specific tools and evaluating, I guess, it was

1 sort of the opportunities that might exist for investment
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- 2 the efficiency changes. Can you maybe spend a little bit
- 3 more about what you were able to find, what worked, and what
- 4 did not work in that context?
- 5 MR. SHERBERT: Okay. Let's just kind of go through
- 6 the listings for the HVAC. Those kinds of projects, we were
- 7 not really able to find any tools other than going to both
- 8 the potential vendors and we have a mechanical engineer that
- 9 we have on contract to be able to determine what the likely
- 10 improvement in efficiency and therefore cost savings would
- 11 be. That one was perhaps the most troublesome, just because
- 12 it required all the inputs from a number of different other
- 13 folk. The insulation was an interesting one in that there
- 14 are a lot of tools out on the Web to estimate savings from
- 15 increasing insulation, most of which are oriented towards
- 16 residential. So, we made them work, but I think it was
- 17 somewhat creative to try to get the inputs to fit. The
- 18 lighting was pretty straightforward, most of the vendors
- 19 that are out there do provide energy savings in terms of
- 20 conversions from conventional high intensity discharge-type
- 21 fixtures to either LED or induction, so we were able to work
- 22 with that one pretty directly. And then, the photovoltaic,
- 23 that has always been a hard word for me to put together, we
- 24 used a number of we had three different contractors we
- 25 talked with and each, of course, gave us a slightly

	1	different	version,	so	we	had	to	interpolate	between	those
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- 2 and then I worked with the Commission staff to refine the
- 3 numbers based on the Commission's experience with the actual
- 4 implementation. So, there was a lot of engineering
- 5 judgment, shall I say?
- 6 COMMISSIONER EGGERT: And then you had that is
- 7 actually really helpful you had also mentioned the issue
- 8 with the street lights and the PG&E contract. I know this
- 9 has actually come up in other projects and I would be
- 10 curious if you said there might be issues of the terms of
- 11 that contract and the ability to go to other parties for
- 12 upgrades. Maybe at some point you could share those if
- 13 you would be willing to share those with us, I think we
- 14 would be interested if that does become a problem, or a
- 15 challenge, I should say.
- MR. SHERBERT: Well, I think it is going to be a
- 17 problem right from the initial work. We have a proposal
- 18 from PG&E to do the change out of our arterial streetlights,
- 19 all 48 of them, for changing to LED's. As I understand,
- 20 however, there is the clause that I am supposed to go out
- 21 for competitive bid, and I am really not sure how I can do
- 22 that since PG&E owns the poles, so I cannot very well say I
- 23 am going to have an independent contractor working on a PG&E
- 24 pole for a PG&E for a Town owned streetlight that PG&E
- 25 maintains. I have asked PG&E what their thoughts have been,

1	I	have	not	heard	back	as	yet,	but	I	suspect	they	are

- 2 struggling with that question, as well. We would certainly
- 3 be open to guidance from the Commission. The requirement
- 4 for competitive bid there just does not seem feasible for
- 5 us.
- 6 COMMISSIONER EGGERT: Okay, and hopefully our staff
- 7 can follow-up on that item. I think those are all the
- 8 questions I had. I do not know if, Laurie, if there are
- 9 any. Again, I really appreciate your taking the time to
- 10 come in and, I think you are right, the unique challenges
- 11 that exist on these smaller projects, it looks like you were
- 12 able to overcome some of those challenges and put together
- 13 what looks like a great package of activities. So, thanks.
- MR. SHERBERT: Thank you.
- 15 MS. KOROSEC: All right, we will be moving on now to
- 16 Mr. Coburn of Nevada County.
- 17 MR. COBURN: Good afternoon. My name is Tom Coburn,
- 18 I am the Facility Manager for the County of Nevada. I would
- 19 like to thank you for the opportunity to come here to tell
- 20 you about some of our experiences through the loan program
- 21 and for the EECBG grant opportunities.
- I want to give you a quick overview of Nevada
- 23 County. We have a population of 98,000 people, 978 square
- 24 miles, three cities, Nevada City, Grass Valley, and Truckee.
- 25 We have 500,000 square feet of facilities, 60,000 square

- 1 feet of lease space, 836 full-time employees, and our annual
- 2 balanced budget is \$180 million. I am going to kind of run
- 3 you through the process. It has taken almost three years
- 4 for us to get to this point. We want to focus on our two
- 5 largest facilities, our Administration Building and our
- 6 Jail. In 2007, the Energy Commission commissioned an energy
- 7 study for the Administration Building and the Correctional
- 8 Facility. The study covered replacement of HVAC equipment
- 9 package units, lighting, boilers, HVAC controls, vending
- 10 machines. We also did a study of the possibility of a
- 11 central plant serving both facilities since they were on a
- 12 joint campus, but that proved not to be a feasible
- 13 opportunity because of the cost. But the Energy Commission
- 14 was very willing to investigate that and come back with the
- 15 facts, and we really appreciate that.
- 16 This is a picture of our Eric Rood Administration
- 17 Building, 103,000-square-feet, it was built in 1988. The
- 18 HVAC equipment in the building is 22-years-old, the lighting
- 19 is first generation T8, no occupancy sensors, and no LED
- 20 exit signs. The building was designed to have two 1.25
- 21 million Btu boilers, but they only put one on the roof, so
- 22 energy savings there, but the system did not work very well
- 23 for the last 22 years. It does have a digital control
- 24 system, but it is kind of inadequate to run the building as
- 25 it should be ran.

1	Here	are	some	of	the	equipment	we	have	roof-top	HVAC

- 2 package unit and our boiler system. This is our Jail
- 3 facility, Wayne Brown Correctional Facility, 69,000-square-
- 4 feet, opened in 1991. The study showed that the HVAC
- 5 package units were at the end of their lifecycle, about 19
- 6 years running 24 hours a day, they were about there. First
- 7 generation T8 lighting, domestic hot water boilers were
- 8 inefficient, and the HVAC controls were outdated. Here is
- 9 kind of a picture of the equipment on there, again. Again,
- 10 HVAC, air handlers, boilers. These are three trucking
- 11 facilities that we have, they are all on the same campus,
- 12 all the lighting that they have for those three facilities,
- 13 they have never done an upgrade all at once, and they have
- 14 been onesies, twosies. There is a Sherriff's facility, a
- 15 Library, Administrative Building, and Courts facility on
- 16 that campus, so we plan to upgrade all of that.
- 17 In 2009, the Board of Supervisors adopted the Nevada
- 18 County Energy Plan. I recommended everybody have an Energy
- 19 Plan, it is a great way to get everybody on board, on the
- 20 same page, it is easier to take back things and say, "It's
- 21 in the Energy Plan, that's why we're moving forward this
- 22 way." The goals of the Energy Plan was to improve energy
- 23 efficiency, reduce greenhouse gases, address renewable
- 24 energy, improve transportation efficiencies, and water
- 25 conservation.

1	So, Nevada County felt it was in our best interest
2	for us to partner with somebody, so we solicited for an
3	energy service company, an ESCO. We did a competitive RFQ.
4	There were two parts to this RFQ, one was the first phase,
5	it was a new boiler and chiller in our Courthouse, phase two
6	would be the Administration Building and the Jail facility.
7	We did complete the Courthouse facility in 2009, and the
8	project went very well, without any surprises. So we had a
9	need, we had an assessment done, we had an Energy Plan, we
10	had identified an ESCO, but we will did not have the money
11	to move forward and go with our projects until this time.
12	So, with the introduction of the Stimulus funds, it gave us
13	a bump to get the ball rolling. We felt that, if we did not
14	apply for the energy loan at that time that the funds would
15	not be available for very long and that has kind of held
16	true, the funds got used up in the loan programs, so we were
17	fortunate to be able to get a portion of that. Our loan
18	amount is about \$1.486 million and \$273,291 in EECBG grant
19	dollars. This allowed us to move forward with our project.
20	So, the Administration Building was 100 percent
21	funding through the energy loan, the Jail facility was 48
22	percent EECBG, and 52 percent energy loan, and the Trucking
23	is 100 percent EECBG. So, we have already started our
24	Administrative Building, the work on there, because that is
25	purely loan, and we are holding off on the other facilities

- 1 until we get the final go ahead to proceed with those
- 2 projects.
- 3 Kind of a timeline, in September of '09, we
- 4 submitted our loan application. It was approved in March
- 5 2010, and work started in May of 2010. We have completed
- 6 our lighting retrofit of the building, the boilers have been
- 7 replaced, and the HVAC equipment should be here by the end
- 8 of the month, we will continue to put that on. The total
- 9 project should be done by the end of September.
- 10 Our timeline for EECBG grant, in November we
- 11 submitted our application, we were the first county to
- 12 submit our application in the process. In April, we had the
- 13 CEC approval of our application, and yesterday, a great day
- 14 yesterday, the application was signed. So I have not seen
- 15 it yet, it is in the mail.
- So our project outcome what do we get for all this
- 17 effort? We now have an annual loan payment of \$166,700 for
- 18 the next ten years, but our annual savings will be \$181,743,
- 19 and greenhouse gas reduction of 704 tons per year, plus the
- 20 fact that we have the new equipment on the roof, comfort
- 21 levels for the staff and employees are much better,
- 22 maintenance is much easier on the equipment, so it is good
- 23 all around.
- 24 So key insights, let me start off by thanking the
- 25 Energy Commission staff, they have all been helpful and

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1	responsive,	especially	Akasna	ipnoni.	sne	nas	aone	а

- 2 wonderful job in getting us the information; she may not
- 3 have the answer, but all the staff have gotten back within a
- 4 short period of time with the current status of things, and
- 5 kept us updated. That was a refreshing part of this
- 6 challenge that we have been in.
- 7 One of the challenges that we have faced, as we
- 8 turned in the application, you think you turn in an
- 9 application and you are done with the process, but the
- 10 process just went on and on and on. Lots of changes,
- 11 lots of updates, lots of changing dates because the dates
- 12 you would put in before had now passed. That made it a
- 13 little bit difficult, a little discouraging in where we were
- 14 going and what we were doing.
- 15 What would we do different in the future? I do not
- 16 know in the future if I would strive to have the first
- 17 application in, to work that hard, because we kind of became
- 18 a guinea pig for everybody else. It was scrutinized
- 19 thoroughly, everybody had input on it, but it seemed to be a
- 20 bit over-scrutinized, and so I do not know if I would do it
- 21 that way again, I think I would wait and be the middle of
- 22 the pack kind of quy.
- 23 And what would we suggest the Energy Commission do
- 24 differently in the future? Again, the scrutiny of the
- 25 projects, the Jail design was scrutinized by the Energy

1 Commission when they did the initial study, it	was looked a
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- 2 again by the Engineers from the ESCO company as they
- 3 designed the feasibility study, it was looked at again for
- 4 the EECBG grant, and it was looked at again for the loan.
- 5 So there is a lot of looking at the same thing. I would
- 6 agree that, if we could parallel the grants with the loans,
- 7 then the requirements and information would have been a much
- 8 better process to bring things together. It would have
- 9 helped if the design had been cemented better from the
- 10 beginning on the process, it would have helped us to keep
- 11 our feet on the ground and know what to expect, and keep the
- 12 surprises down. I know it was a very difficult time. The
- 13 dates were thrown out there and the push was to get it done.
- 14 It would have just been much easier to have been a little
- 15 later and had more of a concrete package to be able to turn
- 16 in to you.
- 17 And then, another scary part coming up is the
- 18 frequency of the reporting, you know, I know we need to
- 19 gather this information, it is very important, but having
- 20 the information due three days after the end of the month, I
- 21 do not know how I am going to be able to really do that,
- 22 especially on the prevailing wage reporting, to get the
- 23 contractors to get all their information, all the way down
- 24 to the subcontractors in. It may be difficult.
- 25 So stimulating the economy and create and retain

1	jobs	in	California,	we	are	fortunate	with	Aircon	Energy	of
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- 2 Sacramento, that is our ESCO, they are willing to use our
- 3 local suppliers for the performance of their work, it has
- 4 worked out very well in the past and helped our local
- 5 economy. I am sure we would not be ordering these HVAC
- 6 equipments, boilers and chillers, or boilers and lighting
- 7 retrofit products, if the Stimulus package had not gone
- 8 forward, it would have been down the road when we found
- 9 additional funding. So, it did stimulate the economy across
- 10 the nation in the manufacturing industry and other places.
- 11 Aircon Industries is out of Sacramento, so there is local
- 12 Sacramento stuff that is purchased, and employees and things
- 13 that continue to grow.
- 14 One of the questions asked was the number of jobs
- 15 created, and it is really a difficult thing to there are
- 16 some formulas that are floating around over there to use, it
- 17 is going to have to be an exit poll for us. We are going to
- 18 poll each of our contractors, subcontractors, and suppliers,
- 19 and we are going to try to determine from them if it saved
- 20 any jobs. I know a couple examples that it has saved some
- 21 positions and extended them on out, people that were going
- 22 to be laid off now still have the job because of these
- 23 projects, so there are success stories out there, I just
- 24 cannot get those stories at this point, I have to wait until
- 25 we get done with the project before we can supply those.

1	The last thing, achieving measurable energy
2	benefits. Our philosophy in Nevada County is to do things
3	that will help the people 20 to 40 years from now. Our
4	actions today for this retrofit will save the county \$3.7
5	million over the next 25 years in energy costs, alone. If
6	these retrofits are successful, and the public can see that
7	you can save money by investing in energy saving
8	opportunities today, when they can be paid for with energy
9	savings in the future, so hopefully that will continue on
10	and we will continue to have projects. With challenges that
11	come forth, "Why are you spending money on this kind of
12	project?" We can lay that out and say, "This is proven
13	evidence that this works and this is why we are doing that."
14	The other question was how to expend money
15	efficiently with accountability and minimal admin burden.
16	That is a tough question. The amount of time spent on the
17	application through all parties, and the amount of time that
18	is spent on monthly reports, is a huge burden and takes away
19	from the amount of money that could be spent towards energy
20	projects. With that said, as a public agency, we have to be
21	held to the highest standards of accountability. If one
22	dollars is misappropriated through poor oversight, then
23	shame on the Energy Commission and shame on us sub-grantees.
24	We just cannot stand for that to have any of the money
25	wasted. But with that said, the oversight has just been

1 huge on these projects and we cannot help but think	that	think	but	help	cannot	we	and	projects	these	ge on	l hu	1
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- 2 money could have been saved by not having so much oversight
- 3 into these projects.
- 4 Contributing to meeting California's energy and
- 5 environmental goals? Nevada County is a small county, and
- 6 the energy and environmental impact is minimal. In the big
- 7 picture of things, we have to do our part. Our part is not
- 8 going to be very much, but we have to still be there, and we
- 9 have to do it. We need to save energy, reduce greenhouse
- 10 gases, protect the environment, but it needs to be done in a
- 11 cost-effective and responsible manner. This loan program
- 12 and EECBG grant allows us to do our part in a very fiscally
- 13 responsible way.
- 14 And then leveraged federal, state, local and private
- 15 financing through partnerships. We were not able to do this
- 16 on this program. We did apply for an SEP grant through
- 17 cooperation with Nortec, but unfortunately we were not
- 18 successful in that program. But we still are looking for
- 19 other opportunities to partner with local cities, government
- 20 agencies, anybody else we can partner with, to help them.
- 21 And that is all I have. I can answer any questions you may
- 22 have.
- 23 COMMISSIONER EGGERT: Thank you very much, Mr.
- 24 Coburn. Let's see, I do have a question relating to the
- 25 work that you did with the ESCO on the County Courthouse,

- 1 that was prior to?
- MR. COBURN: That was prior to.
- 3 COMMISSIONER EGGERT: Okay. What was their role in
- 4 the other projects? Or what is going to be the ESCO's role?
- 5 MR. COBURN: Well, the ESCO role, they do all the
- 6 engineering and then the construction and installation of
- 7 the projects, so they do the Feasibility Study, and then,
- 8 when that is approved and moved forward and okay to go, then
- 9 they will sign a contract to go ahead and do the
- 10 installation on the work.
- 11 COMMISSIONER EGGERT: Good. For the County
- 12 Courthouse activity, was that funded primarily through the
- 13 energy savings in the contract with the ESCO?
- 14 MR. COBURN: Well, in order to be an ESCO, the
- 15 energy savings has to pay for the project. That particular
- 16 project was funded through courthouse construction funds and
- 17 the County of Nevada funds, so, as the courthouse took over
- 18 in that switch there. So that was prior to any of the
- 19 Stimulus stuff going on, and any of that kind of money.
- 20 COMMISSIONERT EGGERT: And then, do you anticipate
- 21 using them or others for future projects along those lines?
- 22 MR. COBURN: As we move forward, yes. This will be
- 23 the largest projects that Nevada County will take on, we do
- 24 not have that many facilities of that size that we will need
- 25 to take on this large a project for, so this is kind of the

- 1 big part.
- 2 COMMISSIONER EGGERT: Okay, well, we very much
- 3 appreciate you being the guinea pig and, again, you know,
- 4 recognize that, as we have heard, it was a challenging
- 5 process with changes occurring throughout, some of which
- 6 were pushed down upon us from the federal level, as well,
- 7 and some, I suspect, that we made during the process. So
- 8 getting these lessons for future activities is really
- 9 helpful. So do we have any questions in the audience? Or
- 10 online? No? All right, thank you very much for coming.
- 11 MR. COBURN: All right, thank you very much.
- 12 MS. KOROSEC: All right, now we will shift gears a
- 13 little bit and move on to state level efforts, starting with
- 14 Gabe Taylor of our Energy Commission staff, who is going to
- 15 introduce our next two speakers.
- MR. TAYLOR: Good afternoon, Commissioners,
- 17 Advisors. My name is Gabriel Taylor, I am the Project
- 18 Manager for an Interagency Agreement with the Department of
- 19 General Services for a \$25 million Revolving Loan Fund.
- 20 Pursuant to Public Resources Code Section 25471, \$25 million
- 21 of the Commission's ARRA funding was transferred to the
- 22 Department of General Services to achieve efficiency in
- 23 state-owned buildings and facilities, and to long-term
- 24 efficiency, energy conservation, energy cost and use and
- 25 avoidance. The Department of General Services is primarily

- 1 responsible for the management of these funds, although I do
- 2 sit on, along with my colleagues at the Department of
- 3 General Services, on the committees approving the loans and
- 4 reviewing the technical quality of these loans. I am going
- 5 to turn this over to my colleague here, Lewis Dean, in a
- 6 moment. But I did want to take this time to say real
- 7 briefly, I would like to thank sincerely thank my
- 8 colleagues at the Department of General Services,
- 9 specifically Lewis Dean, Barbara Brown, and Patrick McCoy,
- 10 for simply being incredibly reliable and enjoyable to work
- 11 with, and for the professionalism and their energy in this
- 12 project, and in addition, I would like to thank Maria
- 13 Martinez, as well, for the same reasons. I think we have a
- 14 really remarkable team in any large project like this
- 15 between large state agencies. There can be many differences
- 16 in culture and difficulties, but in this case, it has been
- 17 really painless and very enjoyable. Lewis, I would like to
- 18 turn this over to you now. And, also, after Lewis speaks,
- 19 Maria Martinez from the Department of Corrections and
- 20 Rehabilitation will speak, and I will pass her presentation
- 21 out to the members on the dais.
- MR. DEAN: Good afternoon. As Gabe mentioned, my
- 23 name is Lewis Dean. I serve as a Program Manager for the
- 24 Department of General Services. I have been involved with
- 25 this program almost a year now, since last July, my Deputy

1	asked	me	to	take	it	on	and	to	work	with	the	California
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- 2 Energy Commission in establishing the Interagency Agreement
- 3 to collaborate with the CEC and the allocation of the \$25
- 4 million of that DGS received. It has been exciting and very
- 5 challenging, and I can relate to some of the comments that
- 6 the gentlemen previous to me have relayed to the Commission
- 7 about some of those observations and those challenges.
- 8 As Gabe mentioned, Public Resources Code 25471
- 9 authorized Department of General Services to administer the
- 10 loan fund for energy projects and state owned facilities, to
- 11 achieve greater long term energy efficiency. The \$2.5
- 12 million was provided to Department of General Services out
- of the \$226 million from the California Energy Commission
- 14 American Recovery and Reinvestment Act of 2009. As I go
- 15 through the presentation, I want to touch on maybe
- 16 highlight certain areas, what the objectives are of the
- 17 program, how you can participate in the program, and what
- 18 some of our successes are in terms of the energy savings of
- 19 the loans that we have encumbered to date. In the
- 20 Interagency Agreement with the Department of General
- 21 Services and California Energy Commission, it was required
- 22 that the Department of General Services establish a
- 23 marketing program, so once the agreement was executed, about
- 24 December of last year, we engaged in a marketing program
- 25 with those particular departments that had substantial

1	portfolio	buildings	throughout	the	State	of	California.	I
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- 2 have highlighted on this slide some of those departments,
- 3 the Department of Motor Vehicles, Highway Patrol, Caltrans,
- 4 Mental Health, Developmental Services, Parks and Recreation,
- 5 Department of Corrections, and the California State
- 6 University System.
- 7 The Interagency Agreement and the codification of
- 8 the Public Resources Code criteria mandated that DGS
- 9 administer this program to achieve certain criteria. In our
- 10 administration of the loan fund in the State buildings, we
- 11 were looking to achieve long term efficiency, energy
- 12 conservation, energy cost reduction, and use avoidance,
- 13 preserve and create jobs, invest in economically distressed
- 14 areas, reduce greenhouse gas emissions resulting in lower
- 15 energy usage, improve indoor air quality and worker comfort,
- 16 economic stimulus by developing energy efficient projects to
- 17 purchase 91 percent of domestic products and services, and
- 18 make investments that have long term economic benefit.
- 19 In recent reports that we have done for the loans
- 20 that we have encumbered to date, the job creation has been a
- 21 big piece, I think, of the interest for the Federal
- 22 Government, as well as the State Government, and based upon
- 23 the formulas that have been provided to us, April, May and
- 24 June, it has been an accretion of about 3.5 to 4 jobs for
- 25 the loans that we have created to date for about \$1.3

- 1 million dollars.
- 2 How can departments participate in the program? On
- 3 this slide, I have kind of highlighted some of the main
- 4 elements of their participation and I get a little deeper in
- 5 slides to follow as to what they have to do, specifically.
- 6 Departments and agencies can utilize the loan program by
- 7 submitting project information, as requested in the loan
- 8 application. They must identify benchmarking criteria and
- 9 energy audits where possible and necessary. The benefit of
- 10 the loan program is that the departments must pay back the
- 11 loan to the Department of General Services, but it is done
- 12 at a revenue neutral position for those departments.
- 13 Because of the energy savings, we work with the Department
- 14 of Finance to benefit the departments from the standpoint
- 15 that they would not need to augment any of the
- 16 appropriations to use to pay the loans for this particular
- 17 program. And that last bullet kind of says that the loan
- 18 payments are structured to be cash flow neutral for the
- 19 departments.
- I will get into a little more detail now in terms of
- 21 how a department can participate in the program. The loan
- 22 application itself that we shared within our marketing
- 23 program provided to the departments an application form, it
- 24 highlighted the need for an Executive Summary that needed to
- 25 highlight how the energy measures, that they were requesting

1 the loan information for, how the decision was made, and	1	the loan	ıntormatıon	ior,	how	the	decision	was	made,	and	t
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- 2 technical information associated with that. It is very
- 3 important for us that the commitment from that department or
- 4 agency was from an authorized person who signed the loan
- 5 agreement and contract that we would be entering into with
- 6 the Department of General Services, and it was very
- 7 necessary that calculations and assumptions to support the
- 8 technical feasibility of the energy savings of the
- 9 recommended projects also be a part of the loan package.
- 10 That has proved to be very beneficial for us because, with
- 11 the California Energy Commission, we have had several
- 12 meetings with the Department of Energy Inspector General,
- 13 and I think we can say, and Gabe can support me on this, is
- 14 that, as we laid out our program to them, they felt that the
- 15 way we had outlined our program and so forth, it would meet
- 16 the test of an audit coming from the Inspector General for
- 17 the Federal Government.
- 18 Continuing on how to participate in the program, we
- 19 have a summary spreadsheet of energy measures in the loan
- 20 package that highlights the project measures, identifies the
- 21 payback period, identifies the energy savings, the life
- 22 expectancy of the equipment that is anticipated to be
- 23 installed, and identifies the rebate activities that the
- 24 utility companies can be provided to buy down the loan,
- 25 itself. And I must say that the utility companies, investor

1	owned	utility	companies	and	publicly	owned	utility	companies

- 2 have been very supportive of this program, have been working
- 3 with the departments to benefit the programs in terms of
- 4 buying down to marry their programs and benefit the
- 5 Department's programs for buying down the cost of the
- 6 projects.
- 7 Also, we asked for the departments to get the
- 8 estimated cost information for the purchase of the
- 9 equipment, which flows into the actual project of the
- 10 development which we include not only the hard costs, but
- 11 also the soft costs associated with the delivery of the
- 12 project, and the contracting process. We have, in the
- 13 development of this program at Department of General
- 14 Services, we kind of took two approaches. We had in place
- 15 retro commissioning contracts that benefitted a quick start
- 16 to get projects started quickly and ongoing, those projects
- 17 were done via what we call a 45/25 selection process where
- 18 we selected Airco and Cogent, which are energy companies to
- 19 come in, that had already done audits on our buildings, so
- 20 that we could translate those audits into very timely
- 21 projects. The previous gentleman also talked about ESCOs,
- 22 we also entered into an agreement with Johnson Controls,
- 23 which is an ESCO company that Department of General Services
- 24 can use with all the departments to benefit a timely audit
- 25 and development of projects in their particular buildings.

1	Also,	we	had	to	comply	with	NEPA,	the	National	Energy
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- 2 environmental process and also the California energy process
- 3 for all projects.
- 4 We kind of described the initial \$25 million as the
- 5 first cycle of funding and, in the first cycle of funding to
- 6 date, we have entered into for the DGS Managed Buildings
- 7 program about \$1.2 million towards the projects. We
- 8 currently have a loan application in for \$2.6 million that
- 9 is being reviewed by the Project Selection Committee that
- 10 Gabe touched on earlier, that is a collaboration of
- 11 Department of General Services and the California Energy
- 12 Commission. We have also entered into a loan agreement with
- 13 the California Department of Corrections for \$4.1 million
- 14 worth of projects.
- We are currently -- the ESCO that I described a
- 16 second ago, which is Department of General Services hired
- 17 Johnson Controls in what we described as the DGS small
- 18 buildings program, which we anticipate opportunities of
- 19 about \$5.9 million. We will be receiving loan applications
- 20 starting mid-July through the latter part of August for the
- 21 Departments that you see on the screen now, with the
- 22 allocations, DMV sites for \$2 million, Department of Water
- 23 Resources, four sites, for approximately \$1.5 million of
- 24 projects, California Highway Patrol, 36 sites, for
- 25 approximately \$2 million of projects, Calfire, which is

1	California	Department	of	Forestry	and	Fire	Protection,	three
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- 2 sites for about \$500,000, Department of Developmental
- 3 Services on three campuses for approximately \$6 million of
- 4 projects, and Department of Mental Health on three campuses
- 5 for approximately \$3.4 million worth of projects. And with
- 6 this activity, we hope to it is going to be very
- 7 challenging, but we are going to get it done in terms of
- 8 meeting the spending of the \$25 million for that first cycle
- 9 of funding. Some of the energy savings criteria in the
- 10 initial loans that we have in place, and this is for the
- 11 Department of General Services projects that we have and for
- 12 the California Department of Corrections, we have total
- 13 loans for projects encumbered about \$5.4 million with an
- 14 annual energy savings of about 8.1 million kilowatts per
- 15 hour, per year, with an anticipated annual cost savings of
- 16 \$1.3 million.
- 17 What I would like to truly highlight, though, is
- 18 that there is an abundance of opportunity in state buildings
- 19 across the many departments for additional monies, if
- 20 available. For instance, we have reached out to the
- 21 California State University System, they have 23 campuses
- 22 statewide, 85 million square feet of buildings, with
- 23 approximately \$140 million of projects with an anticipated
- 24 energy savings of \$19 million per year. We hope that they
- 25 will be providing to us shortly, as well, about \$10 million

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- with the DGS buildings and those other departments
- 3 mentioned, that we can use those projects as fillers in case
- 4 all the projects that are reviewed by the committees do not
- 5 necessarily meet the test, that we have a little reserve
- 6 there. Also in the DGS Managed Building Program, there is
- 7 an additional opportunity for the Office of Chief
- 8 Information Officer of about \$2.5 million worth of projects
- 9 and also with Caltrans District 11 for about \$1 million
- 10 worth of projects. The DGS Small Buildings Program that the
- 11 Johnson Controls ESCO is working on with us, they are
- 12 bringing \$15.9 million worth of projects, but what they are
- 13 sharing with us is that those departments like Department of
- 14 Motor Vehicles, California Highway Patrol, etc., we are only
- 15 touching on about 30-40 percent of the buildings that they
- 16 really own and occupy, so potentially there is another \$20
- 17 million out there of need and opportunity for the State of
- 18 California to participate if the dollars are available, and
- 19 if the dollars are not currently available, what we hope to
- 20 do with the revolving loan program, as the monies are
- 21 regenerated for the program, as loans are paid back, those
- 22 departments and projects will be poised to take advantage of
- 23 the program itself. That concludes my presentation, if you
- 24 have any questions.
- 25 COMMISSIONER EGGERT: Thank you very much, that was

1	a nice	overview.	Α	couple	questions	about	certain	design

- 2 aspects. You were mentioning that the payback period is
- 3 designed to meet or equal the savings, approximately?
- 4 MR. DEAN: No, the loan payments that will be
- 5 developed for the various departments should be revenue
- 6 neutral, such that the departments' budgets would not be
- 7 impacted by having to be augmented with additional
- 8 appropriation.
- 9 COMMISSIONER EGGERT: Okay, then looking back at, I
- 10 guess, your second to last slide, you have the projects
- 11 encumbered by loans to date is about \$5.5 million,
- 12 anticipated annual cost savings is about \$1.3 million, my
- 13 rough calculation it is about a 4.5 year payback or so,
- 14 which is a pretty impressive payback period for that
- 15 investment. Do you have kind of a breakdown of what the
- 16 majority of the projects are in terms of, you know, lighting
- 17 vs. HVAC vs. -
- MR. DEAN: Yes, I do. And then my colleague, Maria,
- 19 is going to share some of that information with you, a well.
- 20 I will just talk about the DGS projects because she will
- 21 share the Corrections projects. Some of the projects, for
- 22 instance, in the Secretary of State Office building, we had
- 23 a chiller replacement, lighting controls, replaced the air
- 24 filters and HVAC coil cleaning. In our Basin State Office
- 25 Building, we did lighting controls, air filter replacement,

1	and	also	coil	cleaning.	In	our	Jesse	Unruh	State	Office
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- 2 Building, which is located in Capitol Mall, it is similar
- 3 project types, and here in the California Energy Commission,
- 4 we replaced an air handler, we also rescheduled some planned
- 5 replacements, occupancy sensors were replaced, and I think
- 6 we are concluding some of those projects as we speak, and
- 7 also some lighting sensors within the building. So those
- 8 will be some types of the projects that we are engaging in.
- 9 COMMISSIONER EGGERT: And you are saying, as the
- 10 money comes back in from repayment, that would then be
- 11 available for future projects. Is that going to be sort of
- 12 an open solicitation? Or are you going to wait for it to
- 13 build up to a certain amount and then do a new RFP? How do
- 14 you manage the fund?
- MR. DEAN: Now, in terms of the contracting, or the
- 16 actual dollars itself?
- 17 COMMISSIONER EGGERT: So, once sort of the first
- 18 cycle, the \$25 is spent, it is going to start to accumulate
- 19 based on payment, how do you manage in terms of new project
- 20 proposals?
- 21 MR. DEAN: Well, I think, as I had mentioned, we
- 22 hope to have more than the need as we speak today, for
- 23 instance, of our requested from the Department of
- 24 Corrections, a submission of additional projects with the
- 25 recognition that this first cycle of funding for the \$25

1 m	nillion	may	not	be	available;	however,	because	we	will	have
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- 2 that already assessed, they will probably be first in line
- 3 to be available for those dollars as the monies are
- 4 replenishing the fund. Similarly, with the California State
- 5 University System, they also recognize that, potentially,
- 6 their submission of a loan application may or may not be
- 7 able to be encumbered in this initial \$25 million, or at
- 8 least not all of it, so those projects that we cannot allow
- 9 to proceed in this initial cycle, we hope to be readily
- 10 available in that second cycle because they already are in
- 11 place and have been reviewed. Now, as other departments -
- 12 we do other departments we have not necessarily thought
- 13 through the total encumbrance as it recycled, but I think we
- 14 will have sufficient projects, I think upwards to maybe \$10-
- 15 50 million for a second cycle, immediately, if all goes
- 16 well.
- 17 COMMISSIONER EGGERT: And then my last question
- 18 actually has to do with the total potential demand or need,
- 19 which looks like it could exceed well over \$100 million, has
- 20 there been any thought given to the possibility of bringing
- 21 in additional private financing to supplement this fund in a
- 22 way that would also have a return, obviously, for the
- 23 investors?
- 24 MR. DEAN: Not at this time. The Department of
- 25 General Services did have a GS Smart Program with the

1 private sector of funding, but for whatev	er reason,	, and i	Ι (	do
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- 2 not know the particulars, so I cannot really say, it did not
- 3 necessarily gain steam. But that is something we can look
- 4 into as an opportunity.
- 5 COMMISSIONER EGGERT: Yeah, because does the \$25 -
- 6 does it pay back with interest? Or is it just a straight -
- 7 MR. DEAN: With interest.
- 8 COMMISSIONER EGGERT: What is the rate?
- 9 MR. DEAN: The language allows the Department of
- 10 General Services to have a flexible rate, but not less than
- 11 1 percent. What we have done, we have analyzed other
- 12 programs across the nation in terms of Revolving Loan Funds,
- 13 and see how they have developed their programs. Some have
- 14 had a flat rate, some have been a flexible rate, and
- 15 currently right now we are looking at a more flexible rate,
- 16 depending upon the payback period of the projects to be
- 17 submitted and the annual payment such that it does not
- 18 exceed the anticipated annual cost of the projects.
- 19 COMMISSIONER EGGERT: Did you have a question,
- 20 Kristy?
- 21 MS. CHEW: Actually yes, hi. Back on slide 8, you
- 22 had mentioned that the utilities had helped with some of the
- 23 program design, and I was just wondering what kinds of
- 24 things that the utilities partnered with the state on.
- MR. DEAN: I do not have the specifics, but in some

- 1 instances, and I think my colleague, Maria, will have more
- 2 specifics on that for the Corrections Program, but they have
- 3 lighting programs and also HVAC programs that the
- 4 departments can benefit from in terms of the offset or
- 5 rebates for their projects.
- 6 MS. CHEW: The rebates, okay. And then, something
- 7 you just responded to Commissioner Eggert on, you said that
- 8 some of the projects that were funded were coil cleaning on
- 9 HVACS and the air filter replacement. I was just curious,
- 10 isn't that part of typical routine maintenance on a
- 11 building, and it would not be a separate project identified
- 12 for ARRA funds? Or is that usually not typical maintenance?
- MR. DEAN: Yes, but it is still a benefit in terms
- 14 of energy savings and I think today all public sector
- 15 budgets are pretty challenged, so when my colleague for the
- 16 Building and Property Management Section brought for the
- 17 projects, he analyzed them based upon the retro
- 18 commissioning agents' recommendations, and so he brought
- 19 forth those projects to the program.
- MS. CHEW: Thank you.
- 21 COMMISSIONER EGGERT: Are there any questions on the
- 22 online?
- 23 MS. KOROSEC: Yes, we do have a question from Jeff
- 24 Rauenhorst, "How long is the review and approval cycle by
- 25 the Committee for the loans?"

1 MR. DEAN: We try to have a qu	ick turnaround of no
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- 2 more than two to four weeks for review of the loan
- 3 applications. We have a Project Selection Committee and we
- 4 have a Loan Review Committee. As Gabriel mentioned earlier,
- 5 Department of General Services has three members, myself,
- 6 Patrick McCoy, Barbara Brown, and Gabriel Taylor, is the
- 7 Project Selection Committee. For the Loan Review Committee,
- $8\,$  we added one more person, and that is Marissa Betts, who has
- 9 extensive banking background to assess the loan applications
- 10 in the financing component. And that, the loan application,
- 11 also takes about a two-week review period, so, collectively
- 12 anywhere from three to four weeks.
- 13 COMMISSIONER EGGERT: We have a question here in the
- 14 audience. Please state your name and affiliation.
- 15 MR. EMBLEM: Yes, Commissioner. My name is Eric
- 16 Emblem. I am here representing today California SMACNA, the
- 17 Sheet Metal Air Conditioning Contractors and the California
- 18 Locals and Sheet Metal Workers Union. And I had more of a
- 19 suggestion than a question. I want to compliment the
- 20 presentation, great presentation. I sit on a committee with
- 21 the California HVAC Performance Alliance, which is hosted by
- 22 the Western Cooling Efficiency Center at U.C. Davis, and we
- 23 are working on some projects on identifying quality
- 24 insulation and maintenance projects for HVAC in accordance
- 25 with strategies and goals identified in the state's long

l term	plan.	And	what	we	are	finding	is	that	it	ĺS	hard	to
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- 2 collect data, and take this data and use the data moving
- 3 forward, and one of the areas we thought would be kind of a
- 4 goldmine of data would be DGS. What I found was, and I
- 5 spoke with Dan Borguyne over at DGS, is that we were looking
- 6 for Commissioning Reports, and we were looking for Balance
- 7 Reports to do some baseline assumptions and possibly going
- 8 back in and measuring the effectiveness of some of the
- 9 interventions done with ARRA funds, specifically, from our
- 10 perspective, with HVAC, but there are similar task groups
- 11 working on the lighting, in the same processes with the
- 12 Lighting Efficiency Center. What we found is that these
- 13 reports are just scattered throughout and housed at each
- 14 building, and there is no central repository for these
- 15 reports within DGS or a process of getting them there. I
- 16 would think that, with the ARRA funds, specifically in the
- 17 State Buildings I know it is really hard to do with the
- 18 private sector but with public sector building, that
- 19 information is invaluable to researchers, to the industry to
- 20 look at to see if the interventions that we have put in,
- 21 whether it be HVAC, whether it be lighting, and measure over
- 22 a period of time, 1) were the assumptions correct, and 2)
- 23 where is the degradation of those systems over time? And
- 24 part of it is to measure quality vs. substandard
- 25 installation practices and equipment, so I guess it is a

1	suggestion	more	than	а	question	that	the	CEC	consider
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- 2 somehow working with DGS and the state agencies of creating
- 3 this repository of information that would be accessible to
- 4 some of these working groups that are working on
- 5 establishing more efficient things, moving towards the 2020
- 6 goals and the 2030 goals.
- 7 COMMISSIONER EGGERT: Yeah, and I really appreciate
- 8 that comment and also thank you for your previous
- 9 participation in our Business Meeting. Actually, I think it
- 10 is an excellent comment and suggestion, and we have heard
- 11 this from other parties, which is, you know, we are
- 12 undertaking a bit of a fairly broad experiment here because
- 13 we have now gotten a significant amount of activity
- 14 occurring. Within those facilities, we are introducing new
- 15 technologies and new strategies, you know, lighting, these
- 16 new lighting sensors, bi-level controls, etc., and I guess I
- 17 would maybe turn the question back to Mr. Dean as, is there
- 18 an opportunity to collect this in a centralized fashion,
- 19 basically the pre- and post-construction information, to
- 20 provide that to outside parties for evaluation, lessons
- 21 learned?
- MR. DEAN: Well, I think there is always an
- 23 opportunity for better measurement and verification and
- 24 collection of information. I would like to say that the
- 25 contract that Department of General Services entered into

- 1 with Johnson Controls is a performance-based contract, with
- 2 a measurement and verification component to it, a validation
- 3 of the energy measures, that are expected. But with that
- 4 being said, I still think the assimilation of that
- 5 information, of a centralized clearing house for DGS would
- 6 be a good idea, and what I can do to support that suggestion
- 7 is relay that to my building and property management section
- 8 to see what opportunities can be provided to support your
- 9 suggestion.
- 10 COMMISSIONER EGGERT: Yeah, I think that is going to
- 11 be really helpful in terms of supporting the future
- 12 investments, just to be able to communicate that in a way
- 13 that is sort of clear and understandable. But I did also
- 14 just want to thank you again. Gabe had mentioned in the
- 15 introduction, but we really do appreciate the partnership
- 16 that we have been able to establish with DGS on this program
- 17 and, you know, among all the partnerships that we have been
- 18 able to create through the Stimulus Program, particularly
- 19 with DGS, I think we have got a great model here, and we are
- 20 looking forward to seeing it flourish.
- MR. DEAN: Thank you.
- 22 COMMISSIONER EGGERT: Thanks.
- 23 MS. KOROSEC: All right, next we will be hearing
- 24 from Maria Martinez from the California Department of
- 25 Corrections and Rehabilitation.

1	MS.	MARTINEZ:	Hello,	aood	afternoon.	Μv	name	is

- 2 Maria Martinez. I work with the Department of Corrections
- 3 and Rehabilitation. Today, my supervisor, Mark Hardcastle,
- 4 is here with me, and we are going to be going over the types
- 5 of projects that we apply for, for loans using the DGS Loan
- 6 Program.
- We funded a little over \$4.1 million worth of
- 8 projects and those projects basically are composed of four
- 9 different sites. Corcoran State Prison has two projects,
- 10 California Correctional Institution we have one project,
- 11 Salinas Valley State Prison, and the Correctional Training
- 12 Facility. Our projects are pretty much shovel-ready
- 13 projects, the type of projects that ARRA was basically
- 14 looking for. The completion time for all of our projects,
- 15 as stipulated in our escrow contracts, is basically six
- 16 months. For our Corcoran facility, and I was able to pull
- 17 out a Website picture, an aerial view picture of our
- 18 facility, you can see that each of our facilities is, in
- 19 terms of square footage, substantially big. They are also
- 20 old, some of them. Corcoran State Prison opened in 1988 and
- 21 it currently houses Level 1, 3, 4, Administrative
- 22 Segregation, and Security Housing Units for approximately
- 23 over 5,500 inmates. It is designed for 3,396 inmates. It
- 24 has over 1.7 million worth of square footage, so that is
- 25 substantially big. Our annual usage for our Corcoran

- 1 facility, it is over 65 million kilowatt hours per year.
- 2 Now, the way our facility is set up in terms of usage and
- 3 metering is our Corcoran facility and our substance abuse
- 4 treatment facility are combined under the same meter, so
- 5 this is a little bit this usage is not just for our
- 6 Corcoran facility, it is also for our CTF facility. It
- 7 costs close to \$6 million a year and we pay about \$.91 per
- 8 kilowatt hour in terms of electricity. Our gas usage, it is
- 9 only for our Corcoran facility, this is not combined with
- 10 our CTF facility. We use 1.9 million Therms per year and
- 11 1.5 in terms of cost. About \$.79 per therm is what we
- 12 actually pay right now. The types of projects that we
- 13 funded under the ARRA Loan Program are the first project is
- 14 an A2D lighting retrofit, we are replacing over 2,000 HID
- 15 lights with new induction fixtures. The majority, 95
- 16 percent of them, are interior, 5 percent are exterior, and
- 17 it is basically our perimeter lighting. The cost of the
- 18 project is \$1.6 million. We are using 1.1 with the ARRA
- 19 loan and \$475,000 with the partnership that we have with the
- 20 investor-owned utilities. The savings for this lighting
- 21 project will be a little over \$180,000 a year, and 1.9
- 22 million kilowatt hours per year. Our demand will be reduced
- 23 approximately 366 kilowatts.
- 24 The second project at our Corcoran facility is going
- 25 to be the completion of our energy management system. About

1	a	year	and	а	half	ago,	we	started	putting	controls	at	this
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- 2 facility, but our funding limits only allowed us to complete
- 3 half of the institution, this loan will allow us to complete
- 4 the entire facility. We are adding controls to 244 HV and
- 5 hot water pump system units, it is over 800 tons of
- 6 mechanical cooling capacity and 80 horsepower of hot water
- 7 pumps. The cost of this project is a little over \$1.4
- 8 million. The ARRA loan will cover \$764,000, and the IOU
- 9 partnership will cover approximately \$700,000. The cost
- 10 savings for this project are \$282,000. The kilowatt hours
- 11 saved are a little bit over \$2.6 million, the therms saved
- 12 are 66,906, and the kilowatt hours saved are 41 I am
- 13 sorry, the kilowatt demand. Now, the demand for this is
- 14 relatively small compared to the size of the project because
- 15 most of our cooling at this facility, it is not mechanical
- 16 cooling, they are evaporator coolers.
- 17 The other project that we funded is at our
- 18 correctional institution in Tehachapi. This project, this
- 19 institution reopened in 1954, it currently houses Level 1,
- 20 3, RC4, and Security Housing inmates. The design capacity
- 21 for this institution is 2,781, but the actual count of
- 22 inmates is over 5,700. The square footage of this facility
- 23 is over 1.4 million. Now, what you can tell in the picture
- 24 is the facility is really spread out. This specific
- 25 project, it is mainly for gas savings, and I will go over

1	that	in	а	little	bit.	The	annual	usaqe	and	cost	of
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- 2 electricity is over 2 million kilowatt hours and 1.7 million
- 3 in costs, giving us an average rate of \$.087. The gas is
- 4 over two million therms with the cost of over \$1.5 million
- 5 and \$.81 therm. The scope of the project, actually, is the
- 6 central steam pump provides domestic and space heating water
- 7 to levels 1 of 4. I am going to walk over here. So, the
- 8 portion of this project is actually retro commissioning
- 9 right here, the central plant is over here. And we actually
- 10 have a heating loop that goes all the way and travels
- 11 approximately three miles, a little over three miles, to
- 12 feed level 4A and 4B, so the heat loss of this travel space
- 13 is substantially high for us; we are going to actually
- 14 remove Level 4A and 4B, housing units from the central steam
- 15 loop, and install high efficiency boilers locally at level
- 16 4A and 4B. The cost of the project is over \$1.2 million.
- 17 We are using the loan, \$786,000 of ARRA funds. The
- 18 partnership is providing approximately \$450,000 for this
- 19 project. The estimated annual savings are \$317,000 a year,
- 20 saving 430,000 kilowatt hours, and approximately 345 Therms,
- 21 and 49 kilowatts.
- 22 The other project that we have is for our
- 23 Correctional Training Facility. Our Correctional Training
- 24 Facility opened in 1946, it currently houses Level 1 and
- 25 Level 2 inmates. The actual count of inmates is close to

1	7,000,	although	it was	designed	for	3,300	inmates.	The

- 2 square footage of this facility, it is over 1.3 million
- 3 square feet. The annual usage and cost for electricity is
- 4 over 14 million kilowatt hours, and it costs the Department
- 5 of Corrections and Rehabilitation over \$1.3 million a year
- 6 for \$.10 a kilowatt hour. Gas, we use approximately 1.4
- 7 million Therms a year, and it costs us \$1.2 million for our
- 8 cost of \$.84 a Therm.
- 9 Salinas Valley State Prison opened in 1996 and it
- 10 currently houses Level 1 through 4 inmates. It is designed
- 11 to house 2,200 inmates, but we are double that at 4,500
- 12 inmates. The square footage of this facility is a little
- 13 over 1.2 million square feet. The annual usage and cost for
- 14 electricity for Salinas Valley State Prison is over 19
- 15 million kilowatt hours, \$1.7 million at \$.9 a kilowatt hour.
- 16 Gas, the facility uses approximately 424 Therms a year, it
- 17 costs us \$350,000 a year at \$.84 a Therm. Now, the way we
- 18 approach the loan for these two facilities is we are using
- 19 the same ESCO company to do both facilities, they are very
- 20 close in proximity. You can see from this picture that our
- 21 facility CTF facility starts here, and this is CT. The
- 22 scope of the project is, for Salinas Valley State Prison, is
- 23 to replace T12's to T8 lighting, to replace the HID lighting
- 24 to T5, the replacement of water heaters for our housing
- 25 units, and to replace the condensers in our HVAC units. At

1	CTF.	we	are	going	to	actually	replace	verv	old	inefficient
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- 2 boilers with new energy efficient boilers and controls,
- 3 replace the air handler unit mortars, and upgrade the
- 4 building controls and sensors in our South Administration
- 5 Building. The combined cost to retrofit these two
- 6 facilities for these projects is a little over \$1.2 million.
- 7 The ARRA loan is going to be sorry, I think there is a
- 8 typo in there but it is going to be a little bit under
- 9 \$600,000. The Partnership is going to pay a little bit over
- 10 \$568,000. The combined annual savings are going to be
- 11 \$361,000 a year, with the savings of over 1 million kilowatt
- 12 hours a year, and 319,000 Therms, with a demand reduction of
- 13 191 kilowatts. That is it for us.
- I do want to mention that the Department of
- 15 Corrections, in the past, has participated in the DGS GS
- 16 Dahmer [phon] Program, however, because of the state of the
- 17 economy, a lot of those lenders that were doing private
- 18 loans to state agencies ended up pulling back, so that
- 19 option for our department, it is no longer available. If it
- 20 were not for the ARRA loan program, none of these projects
- 21 would be basically getting implemented. Any questions?
- 22 COMMISSIONER EGGERT: All right, thank you very
- 23 much. So you guys are doing quite a bit of activity. One
- 24 question I have is, how is the process for you in terms of
- 25 putting together the proposal and actually getting to the

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1	POTITO	$O_{\rm L}$		you	11a v C	actuarry	TECETAER	CITE	Lulius:

- MS. MARTINEZ: We do have a hiccup right now with
- 3 the process. The funds have been approved, the loan
- 4 contracts have agreements have been signed by both CDCER
- 5 and DGS, there is a mechanism that we need to establish with
- 6 the State Controller's Office to be able to have DGS make
- 7 the payments to our contractors, directly, and that is where
- 8 the hiccup is right now.
- 9 COMMISSIONER EGGERT: And, I guess, is there a
- 10 solution for that? It is just -
- MS. MARTINEZ: We are trying to work out the
- 12 language. What we have heard from the State Controller is
- 13 that we have to amend the contract to either put DGS as a
- 14 co-agency, or put some kind of invoicing procedures in our
- 15 contracts. At this point, we are actually working with our
- 16 legal teams to be able to have the language approved by the
- 17 State Controller's Office.
- 18 COMMISSIONER EGGERT: That is a payment to the
- 19 ESCOs?
- MS. MARTINEZ: A payment to the ESCOs.
- 21 COMMISSIONER EGGERT: I guess one question that
- 22 relates back to the previous commenters' point about the
- 23 value of providing sort of the as-built performance of these
- 24 systems, is that something you see as being readily
- 25 straightforward or any challenge with respect to actually

- 1 recording the performance of these improvements and
- 2 providing that back?
- 3 MS. MARTINEZ: No, that is not a problem at all for
- 4 us. We have an extensive partnership with the investor-
- 5 owned utilities, and they have actually hired a partnership
- 6 administrator who is Newcomb, Anderson, McCormick, to
- 7 actually keep track of all the validation measurement and
- 8 the savings, and everything else that gets done for the
- 9 partnership. The process that we have is verification after
- 10 verification after verification, we actually hire on behalf
- 11 of CDCER an A&E firm that validates the savings of the
- 12 ESCOs. On top of that, PG&E comes, or Edison, or Southern
- 13 California Gas & Electric, SDG&E, come in and say, "Okay,
- 14 give us all your design drawings, all your scope issues,
- 15 costs, everything," and they come in and verify the
- 16 installation and engineering design, as well, to ensure that
- 17 we have met the requirements for the rebates and for the
- 18 incentives. So we continue to verify one after another.
- 19 COMMISSIONER EGGERT: And then, this is just a
- 20 curiosity, I think. When you are talking about the Corcoran
- 21 State Prison, you had mentioned that it uses evaporative
- 22 cooling. Is that a direct or indirect evaporative cooling?
- 23 What is the actual technology?
- MS. MARTINEZ: We have both.
- 25 COMMISSIONER EGGERT: They are both -

- 1 MS. MARTINEZ: Yeah, it just depends on the
- 2 institution.
- 3 COMMISSIONER EGGERT: Okay, and then you had also
- 4 mentioned distributing some boilers for process heat or I
- 5 guess process heat or space heating do you have any waste
- 6 heat sources anywhere within the system that you could
- 7 capture to either reduce the energy requirement of the
- 8 boilers or take advantage of?
- 9 MS. MARTINEZ: The current boilers -- I am assuming
- 10 you are referring to CTF, which is our Salinas facility, it
- 11 is one of our oldest facilities -- are actually oversized,
- 12 so the new boilers that were installed are a lot smaller and
- 13 will fit the capacity that is required during the peak,
- 14 which is the winter, no more than that.
- 15 COMMISSIONER EGGERT: Gotcha. Are there any other
- 16 questions from up here? No. Anybody in the audience or
- 17 online? No. All right, well, thank you very much.
- MS. MARTINEZ: Thank you.
- 19 MS. KOROSEC: All right, we have come to the end of
- 20 our formal presentations, so now it is time to open it up if
- 21 anybody in the room does have any kind of public comment or
- 22 if anybody online has anything they would like to say. So,
- 23 first, anyone here in the room, a burning need to speak?
- 24 COMMISSIONER EGGERT: C'mon, Wolfgang.
- MS. KOROSEC: All right, Donna, can you go ahead and

- 1 just un-mute everybody's lines? Okay, everyone who is un-
- 2 muted, is there anyone who would like to make any kind of
- 3 public comment?
- 4 MS. WALAIA: Sure. Which ESCO was used for the
- 5 Correctional Training Facility?
- 6 MS. KOROSEC: Yeah, can you identify your name,
- 7 please?
- 8 MS. WALAIA: Sure. My name is Harpreet Walaia.
- 9 MS. KOROSEC: All right, could you spell that for
- 10 our transcriber, please?
- MS. WALAIA: Absolutely. The last name is W-a-l-a-
- 12 i-a, and my first name is Harpreet, H-a-r-p-r-e-e-t.
- MS. KOROSEC: Great, thank you. Aircon Energy is
- 14 the ESCO.
- MS. WALAIA: Aircon Energy, thank you.
- 16 MS. KOROSEC: You are welcome. Any other comments?
- 17 All right, I think we are -
- 18 COMMISSIONER EGGERT: Actually, one question for
- 19 folks who might think of something after this and want to
- 20 supply is there any opportunity to provide input into the
- 21 Docket?
- MS. KOROSEC: Yes, we do have written comments, an
- 23 opportunity to take those, and then those, I believe, are
- 24 due on July 19<sup>th</sup>. I believe that is the due date. It is in
- 25 the Notice for the workshop, which is posted on our website,

1	it tells you now to submit the comments and the due date for
2	those. Yes, it is July 19 <sup>th</sup> .
3	COMMISSIONER EGGERT: Well, I want to thank
4	everybody for their participation in today's workshop. As
5	it says in the Notice, part of the intent of this workshop
6	is to gather information to be incorporated into the 2010
7	Integrated Energy Policy Report Update, and we will be
8	having a number of other workshops over the next several
9	weeks on other topics relevant to that update, and would
10	welcome everybody to come back and join us for those, as
11	well. Certainly, for myself, this has been quite
12	informative and educational. And, again, we really
13	appreciate the frankness and the contributions about some of
14	the challenges and opportunities that everybody faces in
15	carrying out these programs. And hopefully, if we all learn
16	from each other, it will make both the implementation of the
17	current programs smoother and make the design of future
18	programs all that much better. So, thanks again, and have a
19	great day.
20	[Adjourned at 2:58 P.M.]
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